

DWR NEWS | *People*

FALL 2011



San Joaquin Field Division's Blasting and Coating Crew

Left to Right: San Joaquin Field Division's Blasting and Coating Crew includes Charee Keenan, Alisa Rockwell, Curtis Johnston II, Ignacio Carrillo.



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The Department of Water Resources is committed to providing a safe working environment for all of our employees. We recognize the critical role that each employee plays in helping us achieve our mission.

DWR's employees are key to delivering water to more than 25 million Californians, providing flood protection, ensuring dam safety, and protecting California's natural resources. The water we deliver drives the state's economy and supports countless job opportunities. The protection we provide from floods for communities and infrastructure is critical to safeguarding life and property, and for maintaining the state's ongoing businesses. The sustainability measures and environmental stewardship we foster can preserve our natural assets for generations to come. These activities and others, including water resources planning and how we manage climate change impacts, cannot be met without the contributions of every employee.

As the Director, I recognize that each of you is essential in helping us meet the Department's responsibilities and I believe that providing you with a safe workplace is critical to achieving our goals.

As a result, we launched the Workplace Safety Project earlier this year to take our approach to employee safety at DWR to the next level. Many of you have received safety training and incorporate safety procedures into your work every day and we want to showcase these safe work practices that everyone should be incorporating in their work activities.

In the coming weeks and months, you will be hearing and seeing more about the Workplace Safety Project. Links will be made available through AquaNet for access to DWR safety documents and external safety-related sites along with regular updates on the project and safety-related information, including safety reminders.

In some respects, the approach for communicating information will be similar to other projects. However, the overall focus is unique in that this project is about you and workplace safety. We want to make sure that you are kept informed of our progress to make your workplace safer, including use of new approaches such as the video podcast that officially launched the project.

I hope you will join me in making workplace safety one of our core values along with sustainability, environmental stewardship and other

Mark Cowin, Director

The Workplace Safety Project is providing information to improve safety and establish a world-class safety program. The first phase of the project, Safety Program Assessments, is under way to evaluate current safety practices and determine the effectiveness of our Injury and Illness Prevention Program (IIPP). The Safety Program Assessments consist of conducting division or office planning meetings, site safety assessments, and preparing reports with recommendations to improve workplace safety.

Five organizations were selected for pilot safety assessments in order to validate the process and tools being used for this. These pilot safety assessments resulted in identification of areas where we're doing well, areas that can use improvement, and specific recommendations to improve safety. This information is being shared throughout DWR as an initial step in making our IIPP more effective and build the structure for a world-class safety program. In fact, changes are taking place within DWR to improve workplace safety. These range from the simplicity of

incorporating safety moments into meetings to improving the method of storing hazardous chemicals.

Although we can't go to each and every location or office, we will have at least one representative site safety assessment for each division, activity, or project to ensure that we have completed a comprehensive safety program assessment. The safety team, consisting of safety professionals, will conduct these site safety assessments and provide immediate feedback, as needed, for specific locations.

Similar to the pilot safety assessments, the information obtained through each site visit will be made available so that all offices or locations may benefit. Other phases of the Workplace Safety Project include development of a department-wide safety program that brings consistency and improves safety across divisions and offices. If you have questions or would like additional information about the project, please contact the project manager, **Victor Pacheco**, via e-mail at vpacheco@water.ca.gov or at (916) 653-5243.

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DWR NEWS/People is published quarterly by the California Department of Water Resources.

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DWR NEWS/People's Web site is
www.water.ca.gov/publications/dwrNewsMag.cfm

Funded by the State Water Project Contractors

 **Printed on recycled paper**



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San Joaquin Field Division's Blasting and Coating Crew

By Christina Jimenez

Although they work on land, the highly trained members of the San Joaquin Field Division's Blasting and Coating Crew share every sailor's knowledge that vital equipment – whether ships or water pumps – needs a thin layer of protection.

Sailors chip and paint.

The San Joaquin crew blasts and coats.

And, gets the lead out.

"It's the lead work that sets us apart from the others," said **Daniel LeMay**, Utility Craftworker Assistant Superintendent at the San Joaquin Field Division.

Four of the State Water Project's five field divisions have crews that use abrasive blasting equipment and chemicals to strip away grimy, old coatings from pumps and other equipment and apply a fresh veneer of protection. But the San Joaquin team is the only one certified by the State to remove old lead coatings that were applied before lead in house paints, machinery coatings and other products was decreed to be a

health hazard. As a result, the team – **Ignacio Carrillo, Curtis Johnston, Alisa Rockwell, Charee Keenan, George Diaz, J.R. Moreno, and Carlo Berardini** – often is dispatched to other field divisions.

"They work throughout the State and have been called on, with very little notice, to be hundreds of miles from home for an emergency repair needed to return critical equipment to service," noted **Jeff Said**, Chief of the San Joaquin Field Division. "Long hours and working at far-away locations for long periods of time are a few of the sacrifices the crew undergoes."

The core of the team's work, however, is stripping and re-coating equipment in the 5,000-square-mile area of the San Joaquin Field Division, including components at nine pumping plants: Las Perillas, Badger Hill, Devils Den, Bluestone, Polonio Pass, Buena Vista, Teerink, Chrisman and Edmonston.

Above: Utility Craftworker Curtis Johnston II blasting a pumping unit component.



Left to Right: Utility Craftworker Charee Keenan taping off Chrisman Pumping Plant component for coating. Utility Craftworker Assistant Superintendent Dan LeMay and Utility Craftworker Supervisor Joe Gonzalez review crew assignments. Utility Craftworker Ignacio Carrillo inside Edmonston Pumping Plant where blasting booth is located.

Organized in the 1970s, the crew's work is increasingly vital "because maintenance is only getting more important as the State Water Project ages," said Utility Craftworker and team member Charee Keenan.

LeMay began his DWR career in 1996 at the San Joaquin Field Division, working closely with the Blasting and Coating Crew, which he now oversees.

Joe Guerra, San Joaquin Field Division's Utility Craftworker Superintendent, began his DWR career in 1982 at the Lost Hills Operations and Maintenance Subcenter. In 1983, he joined the division for an eight-year stint as a blasting and coating journeyman before moving on to other duties.

The crews' work day generally kicks off with early morning meetings to discuss assignments.

"Normally, we have pumping plant parts brought to our blasting booth behind Edmonston Pumping Plant" said Keenan. "We first prepare parts by protecting any bolt threaded areas and removing grease. Some parts need to be taped to protect from blasting. Once the rust or coating is removed, we blow it off to remove dust. Next, we tape up areas not to be coated and tack rag parts to remove any excess dust. We then move to the paint booth where we coat with protective coatings and allow drying. The tape is then removed and parts are prepared to be shipped."

Work days can run long, depending on the size and complexity of the job. But no matter the scope of the project, safety procedures must be meticulously followed.

"It could be a pipe or a multiple floor refurbishment of a plant," said Guerra, Utility Craftworker Superintendent. "Depending on the coating, staff starts by following specifications, checking profiles, data collection, prepping, and then utilizing proper application equipment."

Generally, the removal of coating from parts ranges from two to four hours a day, as well as the preparation for applying

a new coat. The application of new coating to the parts varies from four to 10 hours a day.

"Ninety-five percent of the work is done on pump-related parts," said **Joe Gonzales**, the crew's supervisor.

Gonzales, a Utility Craftworker Supervisor, manages the San Joaquin Field Division's blasting and coating team. He is responsible for planning and organizing the workload.

In accordance with safety procedures, the crew is required to wear special protective wear while blasting and coating.

Training

Annually, crew members participate in several extensive training programs to refresh their knowledge of blasting and coating techniques, safety procedures, and state regulations.

As noted, the San Joaquin crew is distinguished by its training in removing lead coatings. State certification for lead work saves DWR money by allowing many jobs to be done in-house, but also requires team members to be checked for lead poisoning every six months.

Crew members attend classes at the renowned "National Association of Corrosion Engineers (NACE) International," where they receive refresher courses on blasting and coating techniques, steps to prepare for a job, as well as lessons on the use of special tools and equipment.

"Confined space training" is another required course. Here, experts provide staff with the proper knowledge and safety habits for working in cramped areas. "There are times when staff works in the pumps where there's not much space," said Guerra.

Essential Traits

In addition to knowledge of safety procedures, regulations and blasting and coating techniques, it is important for crew members to be "self-starters, team players, and able to work well with other crafts," said LeMay.

"A person on the coating crew needs to work well in a group, not mind getting dirty and sweaty, pay attention to detail, be able to wear a respirator for long periods of time," said Keenan.



Utility Craftworker Alisa Rockwell coating a Chrisman Pumping Plant component.

“They must understand the operation of a two-component paint machine for spray coating, and have the strength to hold on to a blast hose when blasting.”

Projects

The blasting and coating crew works on a wide variety of maintenance jobs, large and small, to help keep the water flowing through the State Water Project.

The jobs range from routine and quick revamps to more extensive refurbishments.

“A quick maintenance project may be a small lead-based paint removal project that consists of multiple spot areas, such as bolts on a pump valve that have lead coatings,” said LeMay.

Lengthier projects include multi-floor refurbishments at pumping plants or other projects requested by other field divisions for any lead base paint removal. These projects require staff to assess workload, the transportation of specialized equipment for proper lead removal, and time required for the job.

Completion of a unit refurbishment can take over a month to achieve. Generally, the crew will need to blast and coat all parts of the pumping plant.

Other assignments at San Joaquin Field Division included blasting and coating of eight stairwells at Edmonston Pumping Plant and piping at the Buena Vista Pumping Plant.

Outside of the San Joaquin Field Division area, the crew has worked on blasting and coating at Hyatt and Thermalito pumping plants in Oroville Field Division and Oso Pumping Plant in the Southern Field Division.

The Future Of The Squad

“The crew does change both in supervision and in rank periodically, but one aspect that does not change is the commitment of individual members to one another and their continued commitment to the Department,” said LeMay.



Blasting and Coating Crew off loading pump components from Oroville Field Division at San Joaquin's blast and coating facility for lead paint removal.



DWR's Mussel Control Effort Features SWP Monitoring, Scientific Research

By Jeff Janik, Tanya Veldhuizen and Pete Weisser

Water system monitoring and scientific research ranked high in DWR's invasive mussels management efforts during 2011.

No populations of quagga or zebra mussels have been documented in California's State Water Project (SWP), thus far. Quagga mussel distribution remains limited to Southern California water bodies served by Colorado River sources. Zebra mussels have been found only in San Justo Reservoir in San Benito County. The first discovery of quagga mussels in California occurred at Lake Havasu, in water entering from Lake Mead, during January 2007.

If left unchecked, these invasive mussels can severely deplete the food web in lakes and reservoirs, clog small diameter pipes in water infrastructure and damage boat engines.

Early detection monitoring along the SWP, begun in 2007, continues. It is intensified during warm months when mussels are most likely to spawn. Monitoring is performed by more than a dozen DWR water quality and compliance monitoring staff from field divisions and Environmental Services, the heart of DWR's mussel surveillance program.

During 2011, DWR-sponsored research sharpened the focus on SWP quagga and zebra mussel risks. At Sacramento workshops in January, DWR's invasive mussel consultants--**Renata Claudi, Tom Prescott and Katherine Prescott** of

RNT Consulting, Inc. ---presented information on potential survivability of invasive mussels in the SWP. This included an overview of infrastructure vulnerabilities and control options.

RNT researchers analyzed 10 years of SWP water quality data to assess whether SWP waters could support long-term mussel populations and reproduction. Analyses were based on calcium and pH levels, two limiting factors.

Research on SWP Mussel "Suitability"

They concluded the SWP has three "suitability" zones: 1) not able to support mussels, 2) potentially able to support mussels, and 3) able to support mussels. Geographically, the least suitable areas are in the north, the "potentially able" zone in Central California and the most vulnerable in Southern California.

This research was widely shared during 2011 with SWP contractors, hydropower operators and agencies active in mussel control efforts in California.

Sites within Zone 1 had low calcium concentrations (<12mg/L) and low pH levels that are considered unable to support dreissenid (mussel) populations. Sites included:

Sabrina Bell, environmental scientist with Oroville Field Division, retrieves a veliger tow sample collected near Oroville Dam. Bell is one of the many field division staff who routinely collect veliger samples and check settlement substrates throughout the SWP.

Antelope Lake, Lake Davis, Frenchman Lake, Lake Oroville, Thermalito Diversion Pool, Feather River at Oroville, and Sacramento River at Hood.

Frenchman Lake and Sacramento River at Hood had calcium concentrations below the minimum limit for supporting mussels. However, there were times between January 2000 and September 2010 when both calcium and pH were within limits that could support mussels. These conditions occurred infrequently and the lower limits for mussel survival were very conservative. This combination would not allow establishment of a reproducing population.

Sites within Zone 2 had fluctuating calcium concentrations and pH levels within the past decade that were within tolerable ranges for mussel survival. But they also experienced periods when conditions were limiting. Based on current scientific knowledge, it is uncertain if these sites will be able to support long-term mussel populations.

Locations in Zone 2 included Barker Slough Pumping Plant, San Joaquin River at Vernalis, Clifton Court Forebay Inlet, Harvey O. Banks Pumping Plant, Delta Mendota Canal Headworks, Del Valle Check 7, Check 13, Pacheco Pumping Plant, Check 21 and Check 29.

Sites in Zone 3 had relatively high calcium concentrations and pH above limiting levels, allowing these sites to support mussel populations. Sites included: California Aqueduct, Check 41, Castaic Lake Outlet, Castaic Lake at Jensen Inlet, Silverwood Lake Outlet at Devil Canyon, Devil Canyon Headworks and Lake Perris Outlet.

San Justo Reservoir Science Update

DWR staff scientists **Jeff Janik** and **Tanya Veldhuizen** have monitored zebra mussels and conducted studies at San Justo Reservoir since 2008, soon after their discovery there. San Justo is an isolated facility, closed to the public. San Justo studies have provided researchers greater understanding of zebra mussel biology and their ecological survival needs in California.

To expand on this knowledge, DWR and RNT Consulting are conducting a series of experiments to evaluate the likelihood of zebra mussel survival in SWP water.

Understanding where mussels can and cannot survive in the SWP will be critical in controlling and managing the invasive to minimize impact on water delivery.

Based on historical SWP water quality data, calcium and pH at Clifton Court Forebay, Banks Pumping Plant and San Luis Reservoir are marginal for supporting a long-term mussel population.

Due to the uncertainty of this thesis, DWR will conduct controlled experiments of mussel survival in water collected from those locations. Zebra mussels will be exposed to SWP water transported to San Justo Reservoir. Mussel shell condition and survival will be monitored.

DWR and RNT Consulting will also conduct a series of experiments lowering the pH level of water. Researchers note that under low pH conditions mussels develop holes in their shells and eventually die. Lowering the pH within enclosed pipelines could be a potential control method at SWP facilities. Testing will be conducted in a mobile laboratory located at the reservoir.

Vulnerability Assessment of SWP Facilities

On-site vulnerability assessments were recently completed at Southern Field Division pumping and hydropower plants identified in the habitat suitability assessment. These sites fall into Zone 3 as suitable for zebra and quagga mussels. Plants inspected included Warne, Oso, Alamo, Pearblossom, Mojave Siphon and Devil Canyon.

RNT Consulting will prepare a mussel management plan that will include short and long-term management options. Report completion date is scheduled for April 2012.

Controlling Mussel Spread

Boater education and inspection of boats have helped slow the spread of invasive mussels. This is true both at the Border Protection Stations operated by the California Department of Food and Agriculture and with boat inspection programs at lakes and reservoirs.

In 2010, there were only two new discoveries of mussels in California water bodies, both connected to the already-infested Colorado River Aqueduct distribution system in Southern California. In 2011, to date, there have been none.



Department of Parks and Recreation staff inspect boat for quagga and zebra mussels at Lake Perris. (Photo by Jeff Janik)

DWR's watercraft inspection efforts are advancing at SWP reservoirs. Since April 2009, boat inspections at Perris and Silverwood lakes have been conducted by the State Department of Parks and Recreation (DPR). Boat inspections and clean boating education programs are scheduled to begin this fall at San Luis Reservoir by the State DPR and at Pyramid and Castaic lakes by Los Angeles County DPR.



The white patches on zebra mussel's shell are due to low calcium levels.
(Photo by Jeff Janik)

Habitat Suitability of the State Water Project for Mussels





San Joaquin Spring Flood Fears Vanish - Restoration Effort Makes Progress in 2011

By Pete Weisser

Despite flood fears and political controversy, the San Joaquin River Restoration Program made progress during 2011 toward achieving its water and fish goals.

Led by the U.S. Bureau of Reclamation, a multi-agency coalition of federal and State agencies is working to implement a major court-approved settlement designed to improve flows and fish populations in California's second-longest river. DWR is a vigorous partner in this effort, along with the U.S. Fish and Wildlife Service, National Marine Fisheries Service and the State Department of Fish and Game.

New program leaders for Reclamation and DWR took office in early 2011.

On April 1, Reclamation announced **Alicia Forsythe** as the new program manager. Acting Program Manager since January 2011, she filled a post vacated in late 2010 by **Jason Phillips**, who moved to a new Reclamation assignment in the Klamath Basin. A former consultant, Forsythe came to Reclamation in 2009. She led the program's Interim Flows activities. Forsythe earned Bachelor of Science degrees in Environmental Studies and Hydrologic Sciences from the University of California, Santa Barbara.

In January, **Paul Romero** became DWR's San Joaquin restoration program manager, replacing **Kevin Faulkenberry**. Kevin was promoted in December 2010 to Chief of DWR's South Central Region Office (SCRO), formerly known as the San Joaquin District Office. Romero, who has worked at DWR for 23 years, has spent most of the past five years supervising engineering aspects of the program.

In late April, after months of preparation, Bureau of Reclamation and DWR issued a major environmental impact document to describe the program's footprint.

The San Joaquin River Restoration Program is a comprehensive, long-term effort to restore flows to the San Joaquin River from Friant Dam to the confluence of the Merced River --- a distance of 153 miles --- and to restore a self-sustaining Chinook salmon fishery in the river. The program aims to do this while reducing or avoiding adverse water supply impacts from restoration flows.

SJRRP restoration flows would keep the usually dry reach below Gravelly Ford wet year around.



Left to Right: SJRRP interim flows in the normally dry reach below Gravelly Ford. High snowpack in 2011 supplied flows in the normally dry reach below Gravelly Ford

The program is intended to implement a 2006 federal court agreement that settled an 18-year legal battle between environmentalists and the Friant Water Authority over use of San Joaquin water below Friant Dam, a dam in the Federal Central Valley Project, near Fresno.

During May, four public hearings were held to solicit input on the document, known officially as the Draft Program Environmental Impact Statement/Environmental Impact Report (Draft PEIS/R).

Hearings were held in Visalia and Fresno on May 24, in Los Banos on May 25, and Sacramento on May 26. The comment period, initially set to expire in June, was extended to September 21, allowing more time for public input.

During 2011, DWR continued to make major contributions to the program, according to Romero. DWR is leading an effort to improve a choke point on the river, considered necessary to the program's success. This project, called the Mendota Pool Bypass and Reach 2B Implementation Project, will increase the capacity of the river channel from the current 1,300 cubic feet per second (cfs) to at least 4,500 cfs. Bypassing the Mendota Pool will enable successful fish migration, reported Romero.

During Interim Flows releases, DWR provided vital data for studies and environmental surveys in the restoration area. A major aspect of this work is identifying potential flood impacts of the program. The SCRO is working with the Division of Flood Management's Levee Evaluations Program to ensure that restoration actions don't increase flood risks to nearby farms.

Snowmelt concerns arose during May and peaked in June. After hefty winter snowfalls, the Sierra's early spring snowpack ranked among the largest in the past 60 years. Potential high flows stirred concerns, especially since the San Joaquin has a relatively narrow channel to drain a large watershed. Farmers along the river feared groundwater seepage, which can affect crops and orchards.

State and federal water agencies, including the U.S. Army Corps of Engineers, Reclamation and the State Water Project,

closely coordinated dam and reservoir operations to carefully regulate releases of Sierra snowmelt. State Hydrologists **Jon Erickson** and **Maury Roos** reported that water agencies conferred frequently during May and June on key runoff issues affecting the San Joaquin.

May proved to be a cool month with gradual snowmelt. Peak runoffs occurred during late June as normal temperatures resumed. No major problems were reported, but Reclamation and DWR staff closely monitored river flows and groundwater levels.

Political controversy over the program flared in Congress. In May, three GOP Congressmen from the San Joaquin Valley --- Reps. **Jeff Denham**, **Kevin McCarthy** and **Devin Nunes** --- introduced legislation (House Resolution 1837) proposing several major changes in Federal water policy in California. These changes would include terminating the San Joaquin River restoration program. The expressed intent was to assure more water for San Joaquin Valley farmers.

The proposal came as a surprise to many California legislators, including supporters of the San Joaquin restoration program, and to some involved in the restoration effort.

The legislation was denounced by California's two U.S. Senators, **Barbara Boxer** and **Dianne Feinstein**, both advocates of the restoration program. In a June 7 letter to a House subcommittee, they expressed opposition.

"There hasn't been much of an appetite to modify the settlement," **Ron Jacobsma**, Executive Director of the Friant Water Users Authority, told McClatchy reporter **Michael Doyle** in a May 11 Bee article. "The settling parties have signed a court-approved contract."

During April, the San Joaquin program's annual report for 2010 was issued. The report recounts 2010 progress, including Interim Flows, and 2011 anticipated activities. The text is online at the Bureau of Reclamation Web site and may be accessed at www.restoresjr.net

On August 12, members and staff of the Central Valley Flood Control Board toured the San Joaquin region and were briefed on the restoration program. On November 2 to 3, the Water Education Foundation will conduct its fourth annual San Joaquin River Restoration Tour.



Project Management Workshop Marks Milestone

By Charlie Olivares

It is a milestone that was two years in the making. This past spring a process that started with the establishment of the Project Services Office (PSO) led to DWR celebrating the 200th graduate from its Project Management Training Program.

Shortly after the PSO was formed in July 2009, it was given the task of creating a structured approach that would lead to consistent project management policies and practices throughout DWR. **Matt Nolberg**, DWR's Project Management and Communications Chief began organizing the idea. Nolberg is also a Professional Engineer and Project Management Professional (PMP).

"At the time, the Project Management Institute (PMI) was the gold standard for project management," said Nolberg. "Other agencies and companies were already tapping into PMI's tools and processes for efficient project management."

Once he got his hands on some of that PMI knowledge, Nolberg began developing the format for what has become the current six-day workshop. When the tenth workshop wrapped up in May, it included the 200th graduate of the program. The

eleventh workshop, with 20 more students, got underway in late July.

Gretchen Goettl, PMP, PhD, is one of the workshop instructors. She was recently appointed as Program Manager II in the DWR Project Services Office after several years of running the department's Technical Publications and Communications Media Unit. She was pursuing a graduate degree in management when she became involved with the workshops. That was all it took for her to change course and pursue her PhD in project management.

"Being able to assist with teaching these classes has helped me learn more about and gain experience about project management," Goettl says. "During the first year of the workshops, I passed the PMP and finished my PhD and it was due to being able to learn from the talented project managers within DWR."

Graduates of the Program Management Program during its tenth workshop.

Leading the charge at the workshops is **Cheryl Allen**. She's a certified Project Management Professional who contracted through her employer, Visionary Integration Professionals, to serve as the lead instructor. She provides students with the big picture lessons for project management. Gretchen and Matt then show students how those lessons apply specifically to DWR. They provide instruction on Enterprise Process Guides, case studies and an introduction to the PSO.

The course has been formatted with the needs of DWR project managers in mind. While they have successfully managed projects in the past, the workshop helps in understanding and utilizing the best practices of current industry standards. The lessons follow the framework established by the PMI and referenced in their fourth edition of the Project Management Body of Knowledge Guide (PMBOK). These standards provide the foundation and present new perspectives on project management. In some cases, the workshop builds on a student's experience.

Joseph Chang is a workshop graduate who works in the Bond Accountability and Grants Administration Section of the PSO. He says the training took his work to a new level.

"I was surprised to find that some of the things I have been doing fell right in line with the PMBOK methods," said Chang. "The workshop showed me how to take those things to a new level and apply them on all aspects of my projects."

To make sure the training sinks in, students are asked to immediately put their new-found knowledge to the test. In the weeks leading up to the workshop, they choose a project they are responsible for completing. Throughout the course, students develop a charter and management plan for the project. This allows them to utilize professional project



management in real time and provides instant benefit to the completion of their project. Each course ends with students going before an executive panel to discuss the management process needed to take the project from beginning to end.

To help along the way, the students receive a series of templates that provide outlines for everything from project initiation through project closure.

According to Chang, they've bumped up his organizational skills a couple of notches.

"They help me when it comes to developing the initial framework and scoping out the specifics of a project," said Chang. "By doing that, I can identify potential problems earlier in the process than I used to."

The success of the workshops has captured the attention of DWR Director **Mark Cowin**, who says the training program has been paying dividends since the day it started. "Ultimately, I hope the utilization of professional project management becomes second-nature within DWR," said Director Cowin. "A knowledgeable staff allows the department to promote consistent methods across divisions."

The workshop satisfies one of the requirements (35 hours of project management training) toward becoming a PMP. Other requirements include 4,500 hours as a project manager and successful completion of an exam administered by PMI. Once a DWR employee is PMP certified, the department will reimburse the exam fees (which run about \$500).

The opportunities to learn about project management aren't limited to the six day workshop. The PSO also offers a one-day session for department executives. It gives executives an introduction to the project management principles, terminology, and processes their employees are learning in the six day workshop. The DWR Training Office has also added a project



Left to Right: Program Manager II Gretchen Goettl instructs class during workshop. DWR's Project Management and Communications Chief Matt Nollberg provides overview of class.

management module to the curriculum of the Management Development Program and the Leadperson Workshop.

All this is laying the groundwork for the next step. The newly approved Enterprise Process Guide (EPG), which outlines the department's policy for professional project management. Nolberg sees it as a process that is gaining momentum every day. EPG guide is available at http://aquanet.water.ca.gov/mao/epgs/ds_projectmgmt/01_project_mgmt.pdf.

"When you take the extensive project management training and add in all the other outreach efforts by the PSO, you end up with a very effective way to implement the new policy," said Director Cowin. "The outreach efforts include plans by the PSO to provide a refresher course for students, and possibly offering classes to help them prepare for the PMP exam." "We've shown people how professional project management increases efficiency and consistency throughout DWR," Nolberg says. "It's nice to see people embrace it." The training sessions are held approximately every three months, with the next one scheduled on November 14. Next class is planned for early 2012. With enrollment limited to 20 students per session the classes fill up quickly. To enroll or get more information, contact Matt Nolberg at (916) 747-3300 or



Workshop students contemplate Project Management theory.

nolberg@water.ca.gov. Details are also available on the PSO website at <https://ps0.water.ca.gov/> or in the **PSO eNews** at <https://ps0.water.ca.gov/web/guest/ps0-enews>.

"At some point during every class, someone comes up to me and says, 'I really didn't want to attend the training, but I am really glad I did.' That's when I know our effort is paying off," says Goettl.

Nolberg and Goettl Awarded



Left to Right: Matt Nolberg and Gretchen Goettl are presented Meritorious Service Awards by Chief of the Project Services Office Mark Meeks (center).

The contributions of **Gretchen Goettl** and **Matt Nolberg** extend far beyond being two of the driving forces behind the development and implementation of the Project Management Training Program. Both recently received the department's Meritorious Service Award.

Goettl was honored for her consistent management approach and high quality results as manager of the Technical Publication and Communications Unit. She has also been instrumental in the development of Enterprise Process Guides for department-wide project planning. The Training Office has benefitted from Goettl's help in updating training classes to include industry-standard project management approaches.

In leading the effort to promote consistent and standardized project management, Nolberg has coordinated with DWR's business users, consultants, the divisions of Technology Services, Fiscal Services, Flood Management, and Integrated Regional Water Management and Statewide Integrated Water Management. In addition, he managed the initial development of the Department's web-based tool that both streamlines the administration of State general obligation bonds and facilitates the public's ability to apply for bond funding.



IN THE SPOTLIGHT

Southern Region Office

By Jennifer Iida

Southern California is a naturally beautiful land, but its world famous cities, entertainment meccas and bountiful agricultural fields would be a mirage without adequate water.

DWR's Southern Region Office (SRO) – part of the Division of Integrated Regional Water Management (IRWM) – provides technical and financial assistance, watermaster and other services to help ensure that the water keeps flowing for 20 million people, most of them south of the Tehachapis. With headquarters in Glendale, SRO's versatile staff of 39 fulltime employees and three retired annuitants is a valued presence in Santa Barbara, Ventura, Los Angeles, Orange, San Diego, Imperial, Riverside, San Bernardino, Inyo, and portions of Kern and Mono counties, encompassing 60,253 square miles, or about 40 percent of the state. The staff includes engineers, engineering geologists, environmental and land use scientists, technicians and administrative personnel.

"The Southern Region Office is considered a small fish in a very large pond in relationship to the Southern California water community, but we nonetheless play an important role in terms of regional water management, dispute resolution, and resource assessment," said Chief of Southern Region Office **Mark Stuart**, an engineer with DWR since 1977 and with the SRO since 1993.

The genesis of the SRO goes back to 1950 with establishment of what was then called DWR's Southern California Branch – 21 years before the State Water Project crossed the Tehachapis.

The State Water Project (SWP) – operated by the Division of Operations and Maintenance – brings water from Northern California to the southland via the California Aqueduct's West Branch, East Branch and East Branch Extension.

The SRO provides regional assistance in managing water supplies from all sources. Expertise is provided in surface and groundwater hydrology, land and water use, floodplain management, habitat restoration, watermaster service, environmen-

tal compliance and monitoring, and recreation planning. The SRO also administers loan and grant programs designed to achieve more efficient use of surface and groundwater resources and to promote integrated regional water management.

A Larger Role

SRO employees work on numerous projects and keep rigorous schedules. Among the many assignments are: providing environmental compliance and permitting services for SWP work; conducting hydrogeologic investigations; providing hydrogeologic expertise to federal, State and local agencies; conducting land use surveys; facilitating urban and agricultural water conservation; coordinating IRWM programs in Southern California; providing watermaster services; coordinating the Southern California input to the California Water Plan Updates; offering technical input to Salton Sea restoration efforts; monitoring the ongoing Quantification Settlement Agreement (QSA) legal challenges and ramifications; conducting recreation planning and assisting in other public outreach events; and providing periodic briefings for foreign and domestic visitors.

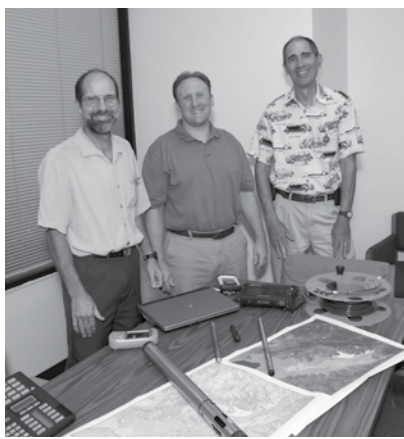
Groundwater in Southland

Proper stewardship of California's groundwater is crucial to ensure it remains a sustainable source of supply. In Southern California, issues such as water quality degradation and land subsidence are of particular concern. Groundwater issues vary statewide, making it most suitable to local management. That's where SRO's Senior Engineering Geologist **Tim Ross** comes into play.

Left to Right: Information Systems Technician Ed Thompson. Chief of SRO Mark Stuart (**center back row**) standing with recently hired SRO staff include (**Front row**) Engineers Mike Weil and Eddie Pech; Engineering Geologists Jack Tung and Anita Regmi (**Back row**) Engineering Geologist Eric Gorman, Staff Environmental Scientist Lauma Jurkevics, Environmental Scientist Emma Panish, Junior Engineering Technician Tony Mireles, and Administrative Officer Yen Huynh. (**Far Right**) Water Resources Technician Michael Van Raalte reviewing map library.

“We do get inquiries from drillers, well owners, and permitting agencies about the standards for constructing wells and destroying wells (DWR Bulletins 74-81 and 74-90),” said Tim. “We try to give them accurate information and help them to choose the best method to protect our groundwater supply.”

“In the past, we destroyed old wells to protect aquifers by removing a conduit from the surface to the groundwater, and about five-to-eight years ago, we were funded to destroy some wells in the Oxnard area of Ventura County that had been drilled by DWR in the 1960s, but not visited for many years,” said Tim. “The project was a one-time funding for destruction of those specific wells.”



Left to Right: Groundwater Section Chief Tim Ross reviewing maps and devices for groundwater measurements with Engineering Geologists Eric Gorman and Gary Guacci.



Left to Right: Engineer Eddie Pech meeting with Special Projects Section Chief Brian Moniz.





Left to Right: Water Conservation and Land and Water Use Section Chief David Inouye and Water Management Branch Chief Charles Keene review projects.

Coachella Canal and All-American Canal Lining Projects

The SRO played a key role in water-saving projects to line two canals that convey water to California's agriculturally productive Imperial and Coachella valleys. Originally built as unlined canals, they leaked significant amounts of water into desert region sandy soils in the arid southeastern corner of Southern California.

The U.S. Bureau of Reclamation estimated that about 70,000 acre-feet of water per year were lost via seepage along an unlined stretch of All-American Canal, and that more than 32,000 acre-feet per year were lost to seepage along the Coachella Canal. Both canals have been lined, the Coachella in 2007 and the All-American in 2009, with major savings of water, according to **Chuck Keene**, Chief of the SRO's Water Management Branch.

Keene noted how the office was instrumental in the canal lining projects.

"The SRO was responsible for contract development, administration, and disbursement of more than \$260 million of State funds for the planning and construction of both of the canal lining projects to prevent seepage," Chuck said. "In addition, the SRO participated as part of the project coordination team that helped guide the planning, design and construction of both of these projects and helped troubleshoot any problems (legal, technical, or environmental) that arose during the planning and construction phases of the projects."

Colorado River Water Use Plan

In years when the Secretary of the Interior does not declare a surplus on the Colorado River, California has a basic apportionment of Colorado River water of 4.4 million acre-feet. Under a "surplus" condition, California has an apportionment of 50 percent of the surplus water made available to the three Lower Basin states (California, Arizona, and Nevada). In addition, the Secretary of the Interior may allow California to utilize unused portions of the basic and surplus apportionments of Arizona and Nevada.

"The development of the Colorado River Water User Plan (CRWUP) is the responsibility of the Colorado River Board of California," said Chuck. "However, the SRO was consulted and advised executive management on ramifications of the plan and progress toward execution. The SRO helped monitor the development of the QSA and is heavily involved in Salton Sea ecosystem restoration efforts that are critical to the ultimate success of the QSA and have important ramifications for successful implementation of the CRWUP."

Striving to Strike a Balance

Southern California is hugely dependent upon a reliable water supply, and the SRO will continue to help the area manage water in response to conditions like drought and population growth. Its dedicated employees will help to assure that the region's water supply is sustainable by helping to strike a balance between urban and agricultural water use and the environment.



Left to Right: Resources Assessment Branch Chief Bob Pierotti and SRO Chief Mark Stuart reviewing groundwater charts.



DWR's First LEED-NC Project

DWR's first Leadership in Energy and Environmental Design – New Construction (LEED-NC) project began in April of 2011 with the construction of the new 20,000 square foot Southern Field Division Headquarters building in Pearblossom (Aqueduct Mile Post 360.59). Located near the town of Palmdale, Pearblossom is 58 miles northeast of Burbank and 55 miles northwest of Ontario.

"It is crucial to have a location that allows for centralized, effective management and supervision for the operations and maintenance of the State Water Project – Southern Field Division," said **Sebastian F. Perez**, Chief of Southern Field Division. "The new 'Administration Building' will provide state of the art energy and water saving devices, achieving LEED Gold Level Certification. The building will combine the divisions of Engineering and Operations and Maintenance in one location to more effectively address safety, FERC relicensing efforts, East Branch Enlargement, and other operations, maintenance, regulatory, and compliance activities in the southern region of California."

DWR will be exceeding the Governor's Executive Order S-20-04 on the minimum of LEED-NC Silver by pursuing a LEED-NC Gold Level Certification for this new administrative office building. To achieve LEED certification, the new headquarters was designed by DWR's architects, using strategies aimed at improving performance across all the metrics that

matter most: energy savings, water efficiency, improved indoor environmental quality, stewardship of resources and sensitivity to impacts, such as:

- Ground source heat pumps using the ground's thermal mass to provide heating and cooling
- Sophisticated thermostat controls that better identify heating and cooling needs
- Electrical controls that minimize the electrical power demand
- Low flow plumbing fixtures
- De-nitrification sewer plant that reduces the bacteria load in the sewer effluent
- Pervious paving that allows stormwater runoff to be captured where it is absorbed into the ground before it runs off the site
- Water efficient landscaping utilizing drought tolerant plants and low flow drip sprinklers
- Use of recycled building products
- Recycling construction waste

Of the more than 200 Southern Field Division staff stationed at various facilities, 40 will move into the new facility which is more centrally located. In addition, 15 employees of Division of Engineering's Lancaster Project Headquarters, currently located in Lancaster (28 miles away), will also relocate to this new facility.

Left to Right: At March 11, 2011 groundbreaking of new LEED-NC project in Pearblossom, Southern Field Division Chief Sebastian Perez, Southern Field Division Administrative Officer Debbie Kastner, SWP Field Division Office Chief Dave Starks, Division of Operations and Maintenance Chief Carl Torgersen, Deputy Director Ralph Torres, and Division of Engineering Chief Richard Sanchez.



*Pearblossom Southern Field Headquarters perspective sketch.
(Sketch by DWR Associate Architect C.Y. Kan)*

Approximately 165 of SFD's staff will not relocate to the new headquarters building as they are needed to staff the many pumping plants and power plants throughout the Southern Field Division. These facilities include the Castaic Lake Maintenance Facility, William E. Warne Powerplant, Oso Pumping Plant, Oso Civil Maintenance and Mobile Equipment Building, Pearblossom Pumping Plant, SFD Engineering and Plant Maintenance building, SFD Water Operations building, Mojave Siphon Powerplant, Cedar Springs Civil Maintenance and Mobile Equipment Building, and Devil's Canyon Powerplant.

"The reason for this building is to address Southern Field Division's shortage of available space, bring together Southern Field Division's management and administrative staff under one roof, include space for 10 staff participating in the FERC relicensing effort, and provide a more centralized and permanent location for Lancaster Project Headquarters," said Perez.

The building will contain a public reception area, 16 private offices, 50 office cubicles, three quiet rooms, a conference and training center that can accommodate large groups, a break

and lunch room, three meeting rooms and two courtyards. The building's design will incorporate efficient use of energy and water to provide a high level of indoor air quality, thermal comfort, visual pleasure, and demonstrate its sustainable and energy efficient features to its occupants and visitors.

The project, which is planned for completion in August 2012, began with the demolition of existing underground utilities and site grading in May of 2011. The building's foundation was completed in mid August 2011. Construction of the building's vertical walls and columns began in August 2011. The building shell is planned for completion by January 2012, then construction of the interiors will commence. Site paving and walkways are planned for completion by December 2011.

In addition to more than 40 employees throughout DWR working on this project, Southern Field Division Chief Sebastian Pérez is the project manager; Division of Engineering Architect **Dave Otto** is the lead for the building's design; and Division of Engineering Construction Branch Chief **Rob Fill** is the lead for the building's construction.

Energy Efficiency Projects at DWR Facilities

DWR is utilizing American Recovery and Reinvestment Act (ARRA) funds to promote economic recovery through investments in energy independence and environmental protection.

"These ARRA funds have been used to pay for projects that increase energy efficiency, reduce reliance on imported energy resources, improve the reliability of electricity and fuel supply, and reduce environmental impacts of energy production and use," said **Mary Simmerer**, DWR's Sustainability Coordinator

DWR has used these funds to upgrade light fixtures and in some locations heating, ventilation, and air conditioning units (HVAC) at four facilities: Vista del Lago Visitor Center, Romero Overlook Visitor Center, Lake Oroville Visitor Center, and Sacramento Maintenance Yard including Bryte Laboratory.

Within a few months of installing lighting and HVAC upgrades to Vista del Lago, DWR has already seen a reduction of approximately 40 percent on the monthly kilowatt energy usage. The project, which began in October of 2010, will be completed in January of 2012.



(Photos by Santa Clara Valley Water District)

Santa Clara Valley Water District

Covering the water needs of the most populous county in the Bay Area, the Santa Clara Valley Water District (SCVWD) supplies clean and safe water for approximately 2 million people in Santa Clara County. Silicon Valley cities served by the water district include Campbell, Cupertino, Gilroy, Los Altos, Milpitas, Monte Sereno, Morgan Hill, Mountain View, Palo Alto, San Jose, Santa Clara, Saratoga, Sunnyvale, Los Altos Hills and Los Gatos.

"We are a unique special district in that we, as a single agency, manage an integrated water resources system for the county, including the supply of water, flood protection, and stewardship of streams. We also are unique in that we import water both from the State Water Project and Central Valley Project," said Chief Executive Officer **Beau Goldie**.

SCVWD is responsible for managing 10 dams and surface water reservoirs with a combined capacity of 170,000 acre feet, 108 miles of levees, 393 acres of groundwater recharge facilities, 140 miles of water transmission pipelines, three water treatment plants with a combined capacity of 220 million gallons per day (mgd), three pump stations and 278 miles of improved channels. The SCVWD provides wholesale water to thirteen local water retailers who use these and other sources to deliver drinking water directly to homes and businesses.

With a 2012 fiscal year budget of \$312 million, the district accomplishes its mission through its 761 dedicated employees who include experts in engineering, environmental planning, industrial hygiene, biology, and other specialized fields to meet the growing water needs of residents spread over more than 1300 square miles.

The History

In the early 20th century, Santa Clara valley farmers relied on a few ditches to divert water from creeks and an increasing number of wells. As agricultural acreage and water use increased, water levels dropped and sections of the valley floor began to sink. Water agencies were formed to address water

supply, flood protection, and land subsidence. Throughout the 20th century, the consolidation of multiple water agencies allowed for more comprehensive management of water resources in Santa Clara County.

By 1929, the Santa Clara Valley Water Conservation District was formed by the California Legislature and construction on the district's first six reservoirs began, designed to catch runoff water from the eastern and western mountains. Flooding was a serious issue in the valley; floods in 1931, 1937 and 1938 halted transportation and inundated hundreds of acres of orchards and pasture lands.

Explosive post-war growth, combined with a major drought from 1940-1946, put a severe strain on local water resources. Groundwater levels continued to drop due to increased agriculture, industry and residential construction, and land subsidence worsened due to over-pumping.

In the 1950s, the valley continued to rapidly evolve from a predominantly agricultural area to an industrial and urban center with more of the county's water consumption shifting from agricultural to domestic and industrial use. As a result, additional storage facilities were constructed and recharge and water conservation efforts were expanded.

By 1967 when the county's population exceeded 600,000, San Luis Dam and Reservoir was completed. In 1965, the State began delivering water from the Delta to Santa Clara County via the South Bay Aqueduct. This supply was used to help recharge the groundwater basin and supply treatment plants needed to meet growing local demand.

By 1969, the addition of imported water to the local recharge efforts halted more than 40 years of land subsidence which had reached 13 feet.

Severe flooding in 1982, 1983 and 1986 heightened public interest in flood protection, resulting in voter-approved funding for much needed projects.

Left to Right: Part of the South Bay Salt Pond Restoration Project, Pond A-8 notch was opened to tidal flows in June 2011. A seismic stability study has concluded that Anderson Dam requires a major retrofit. Santa Teresa in south San Jose is Santa Clara Valley Water District's largest water treatment plant.



As Chief Executive Officer of Santa Clara Valley Water District since June 1, 2009, **Beau Goldie** is focused on leading the agency's "unique integrated approach to water resources management, ensuring that program goals are aligned, resources are used efficiently, and that the community's priorities are met in an accountable and transparent way."

Since joining SCVWD in 1984, Mr. Goldie has worked in water supply planning, groundwater protection, environmental compliance, watershed programs and capital programs services. He is a registered civil engineer and holds a Bachelor of Science degree in Environmental Resources Engineering and a Master of Science degree in Civil Engineering.

The Central Valley Project, San Felipe Division, began delivering imported water to the county in 1987, just as the valley entered a seven-year drought period. The prolonged drought resulted in stepped-up district efforts to seek new sources of water supply through recycled water projects, the storage of excess water in other regions (water banking) and an aggressive water conservation program.

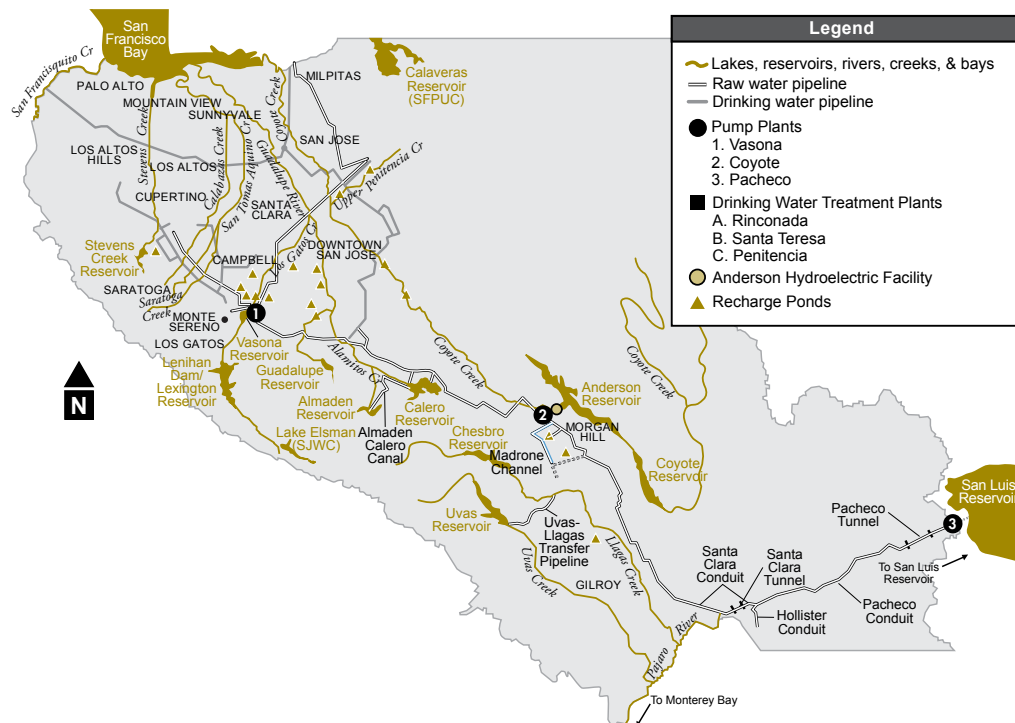
Flooding in the 1990s had a major impact on the San Jose area, prompting President Clinton to declare it a National Disaster Area in 1995 and 1997. In March 1995, flooding of the Guadalupe River around the San Jose Arena caused the cancellation of a San Jose Sharks game, the only rainout in the history of the National Hockey League. In response to continued flooding along the Guadalupe, the SCVWD launched a series of flood protection projects to ensure that residential and commercial areas near the river are protected from 100-year floods.

Responding to community interest and growing recognition of the importance of streams to the effective management of

water resources, the SCVWD added stream stewardship as the third major component of its mission in 1999.

In 2000, Santa Clara County voters approved the Clean, Safe Creeks and Natural Flood Protection Plan (Measure B), a \$350 million parcel tax to ensure continuity of flood protection and stream stewardship services through 2016.

Within the past 10 years, a multi-year Stream Maintenance Program was established to allow the district timely seasonal access to creeks for improved maintenance and environmental enhancement; the district began delivery of ozonated water, providing customers better-tasting, healthful tap water; the SCVWD achieved certification by the International Organization for Standardization for both Quality Management (ISO 9001) and Environmental Management (ISO 14001); and, the district has made a major commitment toward the long-term investment and expanded use of recycled water.



Water Supply

Approximately 370,000 acre-feet (af) of water are used annually in Santa Clara County, with 37 percent from local groundwater, 27 percent from the Central Valley Project, 16 percent from the State Water Project, 15 percent from the Hetch Hetchy Project, and more than 4 percent from recycled water.

With a contract for up to 100,000 af annually from the State Water Project, SCVWD receives its state deliveries via the South Bay Aqueduct (SBA). The Santa Clara Terminal Reservoir, a steel holding tank that is the terminus of the SBA, is located on the site of SCVWD's Penitencia Treatment Facilities in San Jose. The Central Valley Project (CVP) Pacheco Pumping Plant pumps up to 490 cubic feet per second from San Luis Reservoir to Santa Clara and San Benito counties.

With the discovery of zebra mussels at San Justo Reservoir in neighboring San Benito County in 2008, the SCVWD, in collaboration with the Department of Fish and Game, began active monitoring for their presence in local reservoirs. In agreement with DWR, the SCVWD is sharing costs for mussel prevention activities at Lake Del Valle, also part of the South Bay Aqueduct System.

The district recharges over 100,000 af to the groundwater basin annually—almost equivalent to the amount of water they treat annually.

Water Treatment

Owned and operated by the SCVWD, the three water treatment plants, which can deliver a total of 220 mgd of clean drinking water, include Rinconada in Los Gatos, Penitencia in east San Jose, and Santa Teresa in south San Jose.

Rinconada, the first treatment plant, began operating in 1968 and has a capacity of 80 mgd. The water district is investing more than \$50 million in facility renewal projects at Rinconada to replace valves and actuators, improve standby power, upgrade chemical systems, and improve residual management.

Penitencia, opened in 1974, can treat and deliver up to 40 mgd. This is the latest plant to integrate the use of ozone gas in its water treatment process to improve the district's drinking water quality.

Santa Teresa, opened in 1989, is the district's largest plant with a peak capacity of 100 mgd

Recycled Water

More than 4 percent of the water used in Santa Clara County is recycled. SCVWD's board has long supported the



Penitencia Water Treatment Plant, located in east San Jose, is also the site of South Bay Aqueduct's Santa Clara Terminal Reservoir (at top right)

expanded use of recycled water. In the 1990s, the district provided funding to the City of San Jose to launch the South Bay Water Recycling program. To improve water quality for non-potable water customers, SCVWD is currently constructing a \$42 million advanced recycled water treatment facility that will produce up to 10 mgd of high-quality recycled water to be blended with the City of San Jose's tertiary treated wastewater and conveyed to South Bay Water Recycling Program customers.

Water Quality Monitoring

SCVWD takes seriously the commitment to always have a reliable supply of healthy, clean drinking water. In 2008, the water district opened a new \$17.5 million state-of-the-art water quality laboratory to meet increasing needs for water sampling and ever more rigorous testing of approximately 140,000 samples a year. Many of those tests are in response to new water quality regulations for emerging contaminants, such as *cryptosporidium*.

The water district produces and posts on its Web site monthly water quality reports showing the quality of untreated source water received at each of the district's three water treatment plants, and the treated water which the district delivers to water retailers in Santa Clara Valley.

Water Conservation

SCVWD's long-term goal for water conservation is 100,000 acre-feet of water savings per year by 2030. To meet this goal, the water district implements nearly 20 ongoing water conservation programs that use a mix of incentives and rebates, free device installation, one-on-one home visits, site surveys, and

educational outreach to reduce water consumption in homes, businesses and agriculture.

Dam Seismic Safety

Eight of SCVWD's 10 dams, which were constructed during the 1930s to 1950s, are being evaluated for seismic safety. Anderson Dam and Reservoir, near Morgan Hill, is the district's largest dam having a storage capacity of 90,000 acre feet, more volume than the combined storage capacity of the district's nine other reservoirs. Anderson Dam's seismic evaluation was recently completed and requires a seismic retrofit; a planning study is scheduled for completion in 2013. Evaluation of five additional dams will be completed in 2012 and the last two dams in 2013.

Flood Control Protection

The District manages approximately 800 miles of creeks in Santa Clara County to provide for a healthy and safe environment for residents, businesses and visitors, as well as for future generations with an emphasis on natural flood protection measures. The 800 miles of creeks are located in five watersheds; Lower Peninsula, West Valley, Guadalupe, Coyote, and Uvas/Llagas. SCVWD's current Capital Improvement Program (2012-2016) includes 18 flood control projects in the five watersheds.

The District administers an asset management program for its flood protection infrastructure. The program includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended over its useful life.



Construction of the Guadalupe River flood protection project in downtown San Jose

Fifty years of flood protection have significantly reduced the intensity and frequency of flooding in Santa Clara County. Since the early 1980s, the district has invested more than \$1 billion in flood protection, protecting more than 97,000 parcels in previously floodprone areas.

Stream Stewardship

Development, construction, and protection of habitat are critical to SCVWD's integrated water management mission; the water district has constructed or restored over 480 acres of habitat and preserved over 325 acres for watershed protection.

The water district considers streams as assets similar to its water supply and flood protection facilities and is continuing to better track stream conditions by establishing a comprehensive Ecological Monitoring and Assessment Program to program-matically improve the efficiency and effectiveness of the District's ecological monitoring activities.

Habitat Conservation Plans

In 2003, the SCVWD entered into the draft Fish and Aquatic Habitat Collaborative Effort Settlement Agreement with State and federal resource agencies and local interest groups to resolve a water rights complaint regarding the effects of its water supply operations on cold water fisheries in Guadalupe River, and Coyote and Stevens creeks. Before returning to the SWRCB to resolve the water rights complaint, the water district will prepare a Habitat Conservation Plan (HCP). To improve local fisheries while balancing the water district's water supply needs, a comprehensive conservation program with a range of water supply activities in the three watersheds will be included in the HCP.

The cities of Gilroy, Morgan Hill and San Jose, the County of Santa Clara, the Santa Clara Valley Transportation Authority and the Santa Clara Valley Water District have initiated a collaborative process to prepare and implement a regional Habitat Conservation Plan/Natural Communities Conservation Plan (HCP/NCCP). These local partners, in association with the U.S. Fish and Wildlife Service, California Department of Fish and Game, stakeholder groups and the general public, are finalizing a long-range plan to protect and enhance ecological diversity and function within a large section of Santa Clara County, while allowing for currently planned development and growth.



Golden Guardian Exercise 2011 – Disaster Preparedness in the Delta

Most of us have heard the chilling phrase —some scientists consider the Delta-San Joaquin area the most flood-prone region in the nation. An earthquake or Pacific mega storm could damage some of the Delta's more than 1,100 miles of levees, impairing a key link for the SWP's fresh water supply and causing flooding of hundreds of square miles.

The harsh reality of such a nightmarish scenario is the reason twenty-one counties and more than 5,000 federal, State and local emergency managers and first responders around California participated in the seventh edition of Golden Guardian during May 17-19, 2011.

This year, DWR and the California Emergency Management Agency (CalEMA) were lead developers in the exercise, which tested the capabilities of the State to respond to a major disaster in the Delta. Approximately 250 DWR employees statewide participated from 10 divisions including; Flood Management, FloodSAFE Environmental Stewardship and Statewide Resources, Operations and Maintenance, Integrated Regional Water Management, Statewide Integrated Water Management, Public Affairs, Executive, Technology Services and Management Services.

DWR Engineer **Brian G. Heiland** was the Lead Controller during the three day exercise and helped to ensure everything ran smoothly at the Flood Operations Center, the Project Operations Center and the field locations.

"The National Weather Service designed the weather while DWR designed the hydrology for the entire exercise. The storm dramatically tested our disaster-response capabilities to the point of having to pull in extra resources to meet the demand of the exercise," said Brian.

Field Incident Command Posts were set up at Hamilton City, Firebaugh and Twitchell Island during the largest and most complex exercise in size and scope since Golden Guardian started in 2004. DWR Tour Coordinator **Michael Miller** and the

Acting Cal EMA Secretary **Mike Dayton** participated in a briefing for executives and media at the DWR Flood Fight Warehouse at Twitchell Island near Isleton. Highlights included DWR Incident Command Teams practicing their flood fighting efforts and demonstrating how resources, such as CCC, are used during an emergency.

"The purpose of the exercises this year was to really expose staff from DWR and participating agencies to the realities of catastrophic conditions and to emphasize the need for coordination since there are plenty of employees who haven't been through a major disaster," said DWR Emergency Preparedness and Security Manager and Golden Guardian Exercise Executive Sponsor **Sonny Fong**.

After a year of extensive meetings and training sessions DWR lead Golden Guardian Exercise Planner **Brian Smith** effectively pulled together the substantial undertaking.

"The Department successfully met its objectives in participating in Golden Guardian 2011 due to the hard work and the enthusiasm of the Exercise Design Team and all of the participating organizations, both DWR and our partner agencies," said Brian.

The Golden Guardian team was awarded for their remarkable efforts by the California Emergency Services Association (CESA) and The California National Guard. The California National Guard presented the California Commendation Medal to awardees at the Flood Operation Center in August and CESA presented their Gold Award to DWR for outstanding service in the emergency management field in San Diego on October 5.

Left to Right: During exercise, Michael Miller explains Delta situation and DWR staff are briefed. (Third photo) CalEMA's Senior Operations Planner Jim Woodward (second to left) and Assistant Director Steve Goff (far right) present Golden Guardian team award to Sonny Fong, Cale Nasca, Bill Croyle, Binta Coleman, Gurmeet Hajrah, Cindy Matthews(National Weather Service), Ray Welch, Alan Haynes, Mitch Russo, Deputy Director Gary Bardini, and Chris Hintz(National Weather Service) (Fourth photo) Kevin Elcock and Brian G. Heiland with DWR's Gold CESA Award.

DWR Director Cowin Portrays Hydropower as Vital Renewable California Energy Source

“2011 looms as a banner year for hydropower in California.”

DWR Director **Mark Cowin** offered this view to more than 3,000 hydropower industry leaders from across the U.S. and 41 countries at the HydroVision International Conference in Sacramento’s Convention Center in July.

“Plentiful snow and impressive rain last winter and this spring packed the Sierra mountain range and filled our reservoirs, while reducing water demand,” he reported. “With reservoirs brim-full, hydropower this year is easier to produce. Costs of pumping and moving water will be significantly lower than during our recent three-year drought.”

As July began, Director Cowin noted, statewide precipitation for the current water year and the statewide Sierra snow water content were both at a high 140 percent of average. Major reservoirs were nearly full: Shasta at 97 percent and Oroville at 99 percent of capacity.

“Hydropower systems throughout the West are encouraged by the wet start to 2011. This is especially true of hydropower systems in California, both public and private. PG&E expects its hydroelectric power yield to rise 20 percent above average,” Cowin reported.

In welcoming conference delegates on July 19, Director



Panelists Rick Ramirez of DWR and Edward Abrams of FERC provide serious contemplation of difficult questions during a conference presentation on “Making Sure Your FERC License Yields the Desired Results.”

Cowin noted that DWR is both a “major hydropower generator” and a conference sponsor, in partnership with the National Hydropower Association (NHA). The HydroVision International Conference ranks as the largest annual hydropower conference in the world. Delegates attended from many states and 41 countries.

“Hydropower plays a vital role in California’s State Water Project, which DWR built and operates,” explained Director Cowin, “More than half of the State Water Project’s energy needs are met by its own generation of electrical energy.”

“Reliable, renewable and economical, hydropower accounts for about 21 percent of California’s total energy output,” according to the State Energy Commission.

On July 18, SWP Deputy Director **Ralph Torres** led a tour of delegates to DWR’s Oroville Dam. Torres explained its storage, flood control and energy functions.

Torres is a top DWR leader in hydropower activities, serving on the planning committee for the hydrovision conclave. He is a founding member of an informal group of California utilities that meets to discuss common hydropower issues.

Other DWR conference speakers included Hydropower License Planning and Compliance Office Chief **Rick Ramirez** on power facility relicensing strategies, Division of Safety of Dams’ Chief **David Gutierrez** on dam operations, and DWR’s consultant group, RNT, Inc. giving a briefing and update on invasive mussels research in California, with emphasis on DWR efforts to safeguard SWP water and power infrastructure from invasive quagga mussels.



Director Cowin (second to left) speaking with panel during HydroVision International Conference.

Thermalito Pumping–Generating Plant to be Renamed in Honor of Former DWR Director Robie



Left to Right: California Water Commission Members Joe Del Bosque, Danny Curtin, Vice-Chair Paul Kelley, Chair Anthony Saracino, Justice Ronald Robie, DWR Director Mark Cowin, Dave Cogdill, Andrew Ball, Joseph Byrne.

During the September 21, 2011 California Water Commission Meeting, Commission members approved the renaming of the State Water Project's Thermalito Pumping-Generating Plant in Honor of Former DWR Director **Ronald B. Robie**. The facility's new name will be Ronald B. Robie Thermalito Pumping-Generating Plant.

As Director of DWR from 1975 to 1983, Robie led DWR in an era of increased environmental concerns, confronting complex Delta water quality and water supply issues. He currently is a State appellate court justice in Sacramento. The plant, about four miles west of the City of Oroville in Butte County, is operated in tandem with Hyatt Powerplant and Thermalito Diversion Dam Powerplant.

Save Our Water Program Awarded

The "Save Our Water" program sponsored by DWR and the Association of California Water Agencies won two awards in 2011. For the California State Fair exhibit featuring five water-wise gardens, it took first place in display from the National Association of Government Communicators. The program also won a Crystal Award in "Social Responsibility" category from the International Association of Business Communicators.

In an effort to stretch water supplies and help local communities achieve their 20 percent urban per capita water use reduction goal by 2020, the "Save Our Water" program aims to make water conservation a daily habit for Californians and provides a uniform, statewide message about the importance of saving water and supports local water agencies' public education efforts. "Save Our Water" Web site can be viewed at <http://www.saveourh2o.org/>.



Professional Engineer Exam Graduate



Inês C. L. Ferreira
Bay-Delta Office
Engineer
June 2011

Birth Announcement

Congratulations DWR Parent:

Kevin Clark, a Staff Environmental Specialist with the Bay-Delta Office, has a son named Josiah, who was born on June 30, 2011 weighing 7 pounds, 6 ounces and measuring 20 inches long.

Cathy Crothers Appointed Chief Counsel



Cathy Crothers' path to DWR's Chief Counsel began at a most unusual starting point. A career beginning as a nuclear medicine technologist doesn't usually lead to the Office of Chief Counsel, but it makes sense when the path is traveled with a strong interest in environmental issues.

"I worked many years in nuclear medicine technology, but my interest in environmental issues led me back to school to study for a Master's degree in Biological Science," said Crothers, who received her undergraduate degree in biology from University of California, Davis in 1974 and a Masters degree from California State University, Sacramento in 1986. "My Master's thesis examined the dispersal and demography of the Valley Pocket Gopher using radioactive tracers. By the time I finished my graduate work and after watching the work of professionals in the field, I knew that law was a good place to make a difference in addressing environmental concerns."

Crothers, who enrolled in the University of California, Davis School of Law in 1987, took several environmental and natural resource law classes and her interest grew.

"I had a good water law professor, Harrison ("Hap") Dunning," said Crothers.

The inspiration led her to join the Environmental Law Society where she chaired the 1990 Environmental Law Conference. She gained experience as a Law Review Editor, and was published in the 1990 journal with "Tanner Hazardous Waste Streams." She clerked for the California Department of Justice in the Land Law and Environmental Law Sections, providing legal research and memoranda on issues of statewide interest related to real property, water rights, and hazardous waste disposal. After graduating from law school and passing the bar,

Crothers joined DWR's Legal Office as staff counsel in December 1990.

In 2007, Crothers became an assistant chief counsel with responsibilities for managing areas in water rights and Delta water issues just as that area burgeoned rapidly with development of the Bay Delta Conservation Plan. She also managed legal issues regarding water contracts, local project financing, future water supplies, watermaster, water conservation, California Water Commission, and State Water Project (SWP) energy.

"That section of the office is very busy in large part because of the Bay Delta Conservation Plan efforts, Endangered Species Act issues and challenges to our biological opinions, along with FERC licensing and compliance," says Crothers.

Crothers acknowledged that her expertise in these particular areas of law and the State Water Project, might have helped qualify her for her selection as Chief Counsel.

"My experience with the Bay Delta Conservation Plan efforts, along with my background in the long term management of the State Water Project, was probably a big factor in my selection," said Crothers.

Crothers became acting chief counsel in spring of 2010. With her appointment as chief counsel in May of 2011, she manages 34 attorneys and 11 administrative staff covering a variety of DWR legal activities.

As Chief, Crothers sees her biggest challenge as the sheer breadth of legal issues the Department faces.

"There's a huge amount of public water management that the Department serves throughout the state," said Crothers. "We identify where the water needs are and what are best management practices. We also have a lot of statutes and regulations for guiding local water agencies in their water management."

How does she plan to pull it off?

"You do it with a structure that works," said Crothers. "We work as a team."

Training Office Awards for 2010

By Sean Walsh

DWR's Governance Board devoted part of its May 16, 2011 meeting to acknowledge 10 DWR employees for their contribution to the Department's training program.

Kathie Kishaba, Deputy Director for Business Operations and Governance Board Chair, presented the Training Team of the Year award to **Tracy Hinojosa** and **Tracy Pettit** for their time, effort, and dedication to update, revise, and conduct the SWP Operations and the Delta course after a two year absence. Beginning in 2006, they conducted ten classes and taught over 230 employees. Since their responsibilities will no longer allow them to continue as volunteer trainers, they also worked closely with their successors to ensure they were familiar with every aspect of the course.

Because of their hard work, the SWP Operations and the Delta course will continue to benefit DWR employees.

Kishaba presented the award for Training Unit of the Year to the staff of the DWR Printing Production Office in recognition of their dedication and superior service in support of the Department's Training Program. Over the past year, with 125 training related reprographic jobs totaling over 300,000 pages submitted, a deadline was never missed and, in many cases, were completed and delivered early. Since training materials are essential to help students learn, their excellent service and reliability are vital to our success.

Kishaba also presented the award for Training Coordinator of the Year to **Victoria Rodriguez** in appreciation of her outstanding work as the Training Coordinator for the Division of Engineering. She consistently demonstrates a clear understanding of the Department's training policies and procedures by always meeting deadlines and proactively communicating with the Training Office when necessary to make sure that DOE employees are enrolled in vital courses such as Appraisal and Development Training, the Water Resources Engineering Technician program, and Environmental classes. She also makes sure that the Training Office is aware of and prepared to accommodate any employees' special needs which may arise during a training class.



DWR Printing Production Office awarded Training Unit of the Year. **Left to Right:** Fred Light, Marilynne Hite, Deputy Director Kathie Kishaba, Michael Coogan, and Mitchell Pryor. **(Not in photo)** Anthony Alves, George Hren, and Stephen Wong.



Victoria Rodriguez of the Division of Engineering awarded Training Coordinator of the Year.



Left to Right: Training Team of the Year recipients Tracy Hinojosa and Tracy Pettit with Deputy Director Kathie Kishaba **(center)**.

Volunteer Trainers and Presenters in 2010

The Training Office would like to acknowledge the nearly 200 volunteer trainers and presenters who supported DWR's training program during the past year. Because they served as class instructors or made presentations as part of a class, in addition to their regular responsibilities, we are truly fortunate to have such dedicated individuals who are willing to put in the extra time and effort to share their knowledge and expertise. We thank them for their commitment to employee training and development.

Derrick Adachi	Victoria Foster	Paula Landis	Bob Nozuka	Shelly Singh
Mark Andersen	Larry Fox	Richard Le	Kim Oliphint	Brian Smith
Don Anderson	Ted Frink	Jeanie Lee (OCC)	Eric Oppenheimer	Lester Snow
Michael Anderson	Myra Galvez	Jeanne Lee (HR)	John Paasch	Erick Soderlund
Arlene Bailey	Tim Garza	Petra Lee	John Pacheco	Glenn Solberg
Gary Bardini	Frank Glick	Latrice Leslie	Victor Pacheco	Harry Spanglet
Tom Beiler	Ruppert Grauberger	Janet Leung	Mark Pagenkopp	Debra Sprinkel
Mike Bingaman	Kamyar Guivetchi	Leiji Liu	Matt Parker	Pierre Stephens
Kora Bitcon	Lorie Hall	Ignacio Lopez-Alvarez	Jim Pearson	Joe Strain
Chris Bonds	MD Haque	Rick Louie	Jim Peddy	Don Strickland
Robin Brewer	Pam Hart	Albert Madrid	Rich Pendleton	Ward Tabor
Thuc Bui	BG Heiland	Bill Mahon	Josephine Perez	Sharon Tapia
Joe Burke	Herb Hereth	Andy Mangney	David Pesavento	Allen Thompson
Rick Burnett	Mike Hernandez	Howard Mann	Tracy Pettit	Doug Thompson
Vicki Camp	Norm Hill	Paul Marshall	Herman Phillips	Aileen Tokunaga
David Carlson	Tracy Hinojosa	Lorraine Marsh	Bob Pierotti	Carl Torgersen
John Carter	Dale Hoffman-Floerke	Scott Martin	Raquelana Pina	Craig Trombly
Teresa Chaney	Mark Holderman	Daniel McConnell	Andy Pollak	Ron Van Ness
Gail Chong	Eric Hong	Doug McElvain	Rudy Portis	Gabino Velazquez
Darren Choyce	Mark Hopper	Leah McNearney	Jay Punia	Elizabeth Ware
Andy Chu	Dave Huston	Mark Meeks	Nancy Quan	Jack Warner
Francis Chung	Linda Ingalls	Angie Mejia	Don Rasmussen	Matthew Warnick
Nova Clemenza	Ron Ingle	Paul Mensch	Gurdip Rehal	Molly White
Jamie Cole	Amanda Jack	Ed Mentz	Andy Reising	Debra Whiting
Binta Coleman	Rich Jerue	Dean Messer	Andrea Riley	John Williamson
Bill Collins	Karen Joelson	Aaron Miller	Dave Rizzardo	Richard Willoughby
Rob Cooke	Curtis Johnston	Michael Miller	Angel Romero	John Wilson
Steve Cowdin	Shawn Jones	Nancy Miller	Paul Romero	John Wilusz
Mark Cowin	Dave Kearney	Mutaz Mihyar	Maury Roos	Twylla Winslow
Ted Craddock	Kathy Kelly	Sheryl Moore	Mitch Russo	Gil Wong
Barbara Cross	Laurence Kerckoff	Scott Morgan	Jeff Said	Derek Yagi
Cathy Crothers	John King	Michelle Morrow	Jess Salazar	Dan Yamanaka
Bill Croyle	Michelle King-Byrd	Ron Mountjoy	David Sandino	Mark Zetterbaum
Sharmane Daniels	Kathie Kishaba	David Mraz	Vera Sandronsky	Jennifer Zuniga
Rene DeLaCerta	Dale Kolke	Douglas Myatt	Jane Schafer-Kramer	
George Diaz	Michal Koller	Margery Nagel	Mary Jo Schall	
Jennifer Dong-Kawate	Jeanne Kuttel	Cale Nasca	Kasey Schimke	
Robert Duffey	Gerri Higgs	Steve Nemeth	Fariba Shahmirzadi	
John Engstrom	Tony Labon	Perla Netto-Brown	Tom Shannon	
Teresa Engstrom	Chris Lam	Jason Newton	Geoff Shaw	
Gary Fifield	Mark Lambert	Holly Nichols	Sue Sims	

Willow Slough Fish Ladder and Culvert Replacement Project Unit Citation



Left to Right: Front Row: Paul Casillas (DFM), Sara Denzler (FESSRO), Leslie Pierce (FESSRO), Kelly Briggs (DFM), Nancy Snodgrass (DIRWM), Kevin Dossey (SOD), Kathy Kelly (BDO), Brent Lamkin (DOE), Jonathan Kwan (DOE) **Second Row:** Craig Williams (DFM), Scott Woodland (DIRWM), Teresa Engstrom (DOE), Amy Young (DFM), Bonnie Ross (retired DFM), Caitlin Roddy (DFM), Erin Brehmer (DFM), Melanie Powers (DFM), Stephanie Chun (DFM), Paula Landis (DIRWM), Surinder Tumber (DOE), Bill McLaughlin (B-DO), Will Verigin Jr. (DOE). **Third Row:** John Kleinfelter (FESSRO), Joseph Chang (Project Services Office), Will Hicks (DOE), Scott Deal (DFM), Scott Kranhold (DFM), Keith Swanson (DFM), Ahmad Sadighi (DOE), Deputy Director Gary Bardini (Executive), James Newcomb (DES), Ted Frink (FESSRO), Spencer Kenner (legal office), Tony Danna (FESSRO) **Not in photo:** Cindy Beach (DOE), Armando Lopez-Bedolla (DOE), Duane Cornett (DOE), Christine Erickson (DOE), Arnold Sanchez (DOE), Megan Sheely (FESSRO), Harry Spanglet (FESSRO), Joel Farias (DFM, Sutter Yard), Karen Hull (DFM, Sutter Yard), Erica Fong (DFM), Jeff Shuette (DFM), John Langston (DFM, retired), Darick Blake (DOE), Ryan Colquhoun (DOE), Philip LeCocq (DOE), Hiren Majumdar (DOE), Jamal Zumot (DOE), Teresa Connor (DIRWM), Scott Kennedy (DIRWM), Jim West (DIRWM), Brian Schreier (DES), and Jasbir Gill (DOE)

The Willow Slough Fish Ladder and Culvert Replacement Project Team received a unit citation for completing the project in a timely manner while overcoming difficult situations. This project, which helped improve flood protection for the Sacramento region, also improved fish passage and operation and maintenance activities. The project removed one of the two remaining obstacles for anadromous fish passage in the Lower Butte Creek system, improving the ability of DWR to manage the irrigation water supply in the Sutter Bypass, and rehabilitating one of the oldest flood control facilities in the Sacramento River Flood Control Project.

During all phases of the project, the team faced numerous challenges that required a careful balancing of competing constraints. Major challenges that the team successfully overcame included maintaining fish passage through the construction site, avoiding impacts to endangered species, and maintaining irrigation water supply in the East Borrow Canal of the Sutter Bypass during construction, all within a narrow window of time permitted for construction under various regulatory constraints.

Budget Office Unit Citation



Left to Right: Budget Office Team included (Front row) Deputy Director Kathie Kishaba, Jamie Cole-Moran, Janet Leung, and Jennifer Zuniga. **(Back row)** Mark Zetterbaum, Debra Whiting, Marge Nagel, Mike Myatt, and Chief of Fiscal Services Perla Netto-Brown. **(Not in photo)** Thuc C. Bui, Shelly Singh, and Twylla Winslow.

The Budget Office Team was awarded a unit citation for their exemplary and sustained service to DWR, especially in securing and monitoring the necessary fiscal resources for mission-critical programs. The team provided technical expertise and support to DWR staff by coordinating budget planning and development activities, advising and assisting program managers to resolve complex fiscal issues in support of Department programs, tracking and analyzing expenditures to ensure the proper management and use of funds, and performing various administrative activities using SAP, the Department's enterprise financial system.

The team was also commended for providing outstanding customer service, responding quickly and accurately to internal and external drills and requests for information, implementing the Enterprise Budget Planning tool and continuing to educate Department staff on a variety of budgeting processes.

North Central Region Office's 2010 Employee Recognition Program Awards

As part of DWR's 2010 Employee Recognition Program, the Division of Integrated Regional Water Management's North Central Region Office (NCRO) presented Meritorious Service Awards and Unit Citations to NCRO employees to acknowledge their accomplishments and contributions.



Left to Right: Research Analyst II Scott Flory, Environmental Scientist Jared Frantzich, and Water Resources Technician II Wayne Jensen.

Meritorious Service Awards were presented to the following NCRO staff members: **Scott Flory**, Research Analyst II (GIS), for his work in establishing an enterprise GIS-based data storage system for NCRO; **Jared Frantzich**, Environmental Scientist, for his efforts to establish a network of year-round turbidity stations in the central Delta and cell phone telemetry capabilities at NCRO water quality stations; and **Wayne Jensen**, Water Resources Technician II, for his outstanding work to ensure required surface water level and quality monitoring was completed in a thorough and timely manner.

Unit Citations were presented to members of NCRO's Bathymetry and Technical Support and Special Studies and Flow Monitoring Sections for their work in developing new procedures and expertise using state-of-the-art technology for improving the accuracy, reliability, and staff and public safety of collecting and managing surface water data; and to members of NCRO's Water Supply Evaluations Section for their dedicated support of multiple DWR programs, including development of the California Water Plan Update 2009 and implementation of the Integrated Regional Water Management program.



Left to Right: Bathymetry and Technical Support and Special Studies and Flow Monitoring Sections (**Front row**) John Ho, Brody Sunderland, Scott Flory and Matt Mulligan. (**Back row**) David Schaap, Special Studies and Flow Monitoring Section Chief David Huston, Mike Baldwin, Brett Larsen and Bathymetry and Technical Support Section Chief Shawn Mayr (**Not in photo**) Amy Smith.



Left to Right: NCRO's Water Supply Evaluation Section (**Front row**) Alan Aguilar, Shicha Chander and Abby Carevic (**Back row**) Glenn Moeller, NCRO Water Supply Evaluations Section Chief Gary Lippner, and David Barth.

Twenty-Five Years of Service



Jeffrey Bowen
Technology Services
Systems Software Specialist
July 2011



Lori Brown
State Water Project Analysis Office
Senior Hydroelectric Power Utility
Engineer
July 2011



Francisco Valencia
Operations and Maintenance
Supervising Hydroelectric Power
Utility Engineer
August 2011



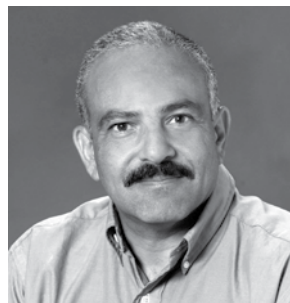
Neil Gould
Executive –Office of Chief Counsel
Assistant Chief Counsel
September 2011



Carol J. Hurlock
California Energy Resources
Scheduling
Associate Hydroelectric Power
Utility Engineer
December 2011



Mark Meeks
Statewide Integrated Water
Management
Principal Engineer
July 2011



Mutaz B. Mihyar
Safety of Dams
Supervising Engineer
December 2011



Jonathan Mulder
Northern Region Office
Engineering Geologist
July 2011



Hans Pettersen
Operations and Maintenance
Associate Control Engineer
December 2011



Cynthia A. Puccinelli
San Luis Field Division
Management Services Technician
November 2011



Stephani Spaar
Environmental Services
Environmental Program Manager
August 2011



Pritam Singh Thind
Environmental Services
Staff Chemist
September 2011

Michael Sutliff
Safety of Dams
Senior Engineer
May 2011

No Photo Available

Manuela Nelly Borja
San Joaquin Field Division
Materials and Stores Specialist
November 2011

No Photo Available

Forty Years of Service

John Kemp
Southern Field Division
Water Resources Engineering
Associate (Supv.)
October 2011

No Photo Available

Retirements

Dale B. Kolke



From the days of processing negatives in dark rooms to the new era of digital photography, **Dale Kolke** of the Public Affairs Office's Photography Unit has found great reward during his 35 years as a photographer, 23 of them with DWR.

Dale's love of photography began with a gift from a friend.

"Back in grade school, a friend gave me an old camera and I started playing with it and I fell in love with it," said Dale. "My dad, who was an engineer, never thought I would make a living out of photography. I've managed to live my whole life taking pictures and working for the photographic industry."

Dale's original goal was to become a high school teacher. In 1975, he graduated from California State University, Long Beach with a Bachelor of Arts degree in Industrial Education with a specialization in photography and graphic arts.

With teaching jobs scarce, Dale went to work as a Nikon Photography School Instructor from 1976 to 1978. He was a professional photographer at events, including the 1976 Olympics, the Kentucky Derby, and the Long Beach Grand Prix. Dale's photography has appeared in a variety of publications, including Los Angeles newspapers and Sacramento magazine. He has taken photos for Nissan Motors, Follett College Books, the California State Capitol Museum, California Video Sales, San Diego Chargers, McCurry's Corporation, and the Sacramento Water Festival.

"I have lectured about photography to thousands of people across the United States, trained hundreds of individuals, and performed one-on-one training in technical usage of specialized equipment," said Dale.

Dale's photography has been featured in handouts, overheads, slide shows, posters, displays, and multi-media presentations. His assignments, which have taken him throughout the United States and several foreign countries, have included shooting advertising photos, weddings and sports events.

"Most satisfying part of my job has been producing something, then seeing it used in a publication," said Dale.

Dale also worked as a freelance photographer and managing director of the Point Loma School of Photography. In 1980,

he became a Unicolor Inc. technical representative. He then joined Sinar Bron as a technical consultant, lecturer, audiovisual producer, seminar leader and professional liaison. Dale also attended training in Switzerland.

Two years prior to joining DWR in 1988, Dale was a freelance photographer specializing in corporate and advertising photography. He was also a floor instructor at the Glen Fishback School of Photography.

As Supervisor of DWR's Photography Unit for 10 years, most of Dale's assignments involved photographing DWR projects, people and events.

Many of Dale's DWR photos have traveled around the world.

"I have sent photos of the State Water Project and other California water photos to publishers in France, England, and Germany," said Dale. "During one of the snow surveys, my photos were distributed by The Associated Press."

When Dale joined the Photo Unit, it had four darkrooms for developing photographs. Today, DWR photographers use digital cameras and no longer have darkrooms. Dale's last DWR assignment was transferring images to a program that will allow the public to download DWR photographs from the Internet.

"The entire photographic industry has changed to digital world," said Dale. "I miss the beauty and technique of making prints and shooting film, but for immediacy it's so much easier in this new way."

Dale has also taken photographs for other agencies, including the Natural Resources Agency, the Water Education Foundation, Association of California Water Agencies and the departments of Forestry and Fire Protection, Boating and Waterways, Toxics Substances Control, and Corrections and Rehabilitation.

Unlike those who end their careers after retirement, Dale's photography career will continue in his retirement.

"First thing I want to do after I retire is clean my garage," said Dale, who retired in August. Dale's plans also include working on home improvements, being a freelance photographer, traveling, and learning Spanish. ■

Retirements

Kuldip S. Atwal



After 31 years of working on mechanical engineering projects at several State Water Project pumping plants, **Kuldip Atwal** retired in July as Senior Mechanical Engineer with the Division of Engineering's Mechanical Engineering Section to spend more time on his large farmland.

"While visiting San Luis Obispo, it was memorable for me to remember while showering that the water was coming from the pumps that I had designed," said Kuldip, who is proud to have worked on several memorable projects for DWR.

A native of India, Kuldip has a Bachelor of Science degree from Punjab University Chandigarh in India. He also has a Bachelor of Science in Mechanical Engineering from California State University, Sacramento.

In 1980, Kuldip joined DWR as a junior mechanical engineer. He was later promoted to assistant and associate mechanical engineer. He designed and prepared plans and specifications for equipment and mechanical systems, including 22 pump units for Coastal Branch pumping plants; four 84-inch diameter spherical pump discharge valves and four 35,500 horsepower motors for Banks Pumping Plant; three 48-inch diameter spherical pump discharge valves for Pearblossom Pumping Plant; two 45 cubic feet per second (cfs) and one 16 cfs spare pumps for South Bay Pumping Plant; canal trash rack cleaning system for Devil's Den Pumping Plant; gantry crane, trash rack rake and siphon breaker for Pearblossom Pumping Plant; and mechanizing maintenance platform at Skinner Fish Facility.

In 1985, he received the Director's Outstanding Professional Award and Sustained Superior Accomplishment Award.

As Senior Mechanical Engineer since 1995, Kuldip supervised seven engineers during completion of Devil's Den, Bluestone and Polonio Pass Pumping Plants for Coastal Branch Aqueduct. His assignment included having all submittals reviewed for compliance with plans and specifications and answering questions from contractors and field offices to clarify and resolve design, clearance, fabrication or installation problems of mechanical equipment and systems.

He was also responsible for procuring spare parts for pumps and valves for Edmonston, Pearblossom and Oso pumping plants.

For the East Branch Extension (EBX) Project Phase I, Kuldip supervised and coordinated design of all mechanical aspects being performed by mechanical engineers and mechanical technician III. He managed four equipment contracts, which included furnishing pumps, motors and variable frequency drives, ANSI ball valves, ANSI butterfly valves, and AWWA butterfly valves. His staff reviewed plans and specifications for equipment and systems for pump stations; for mechanical systems for Greenspot, Crafton Hills and Cherry Valley pump stations; for pumps and motors for pump stations; for ball and butterfly valves for pump stations; for air chambers; and for air and vacuum valves for pipeline reach contracts.

He was the manager for procuring mechanical equipment for the expansion of South Bay Pumping Plant. His most recent assignment was the design of mechanical work for EBX Phase II Project. Under his supervision, four contracts to procure different types of valves were awarded. The work to procure pumps and motors for the new Citrus Pump Station and expanded Crafton Hills Pump Station was underway.

Raised in a family of farmers in India, Kuldip's retirement plans include spending more time on his farmland in Yuba, Sutter, and Tehama counties. He plans to continue growing peaches, prunes and walnuts. In the off season, he intends to travel. ■

Retirements

Kenneth Allen
San Luis Field Division
Senior HEP* Operator

Pamela Borba
San Luis Field Division
Water Resources Engineering
Associate (Supv.)

Annalena Bronson
Flood Management
Staff Environmental Scientist

James Byles
Engineering
Water Resources Engineering
Associate

Baryohay Davidoff
Statewide Integrated Water
Management
Land & Water Use Program Manager I

Edward Diamond
State Water Project Analysis Office
Engineer

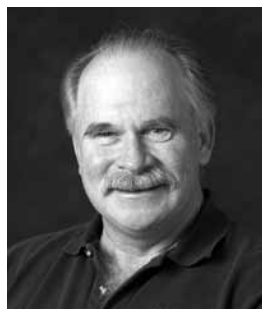
Carlos Echeverria
SWP Power and Risk Office
Associate HEP** Utility Engineer

Abolghasem Ehsan
Engineering
Associate Electrical Engineer, HS

*Hydroelectric Plant
**Hydroelectric Power

Retirements

Ted Bruce



California's unpredictable earthy crust is an endless challenge to engineering geologists in the water conveyance business. **Ted Bruce** has spent nearly four decades investigating rocks, formations and soils that underlie the Golden State's magnificent scenery and underpin its water infrastructure.

"Ted Bruce is a classic engineering geologist," says Frank Glick, his boss at DWR for the past 24 years. "He has performed great exploration geology work, as well as detailed construction geology assignments, for the State Water Project over the last 24 years."

Since joining DWR in 1987, Ted has worked on a wide variety of SWP facilities and structures, including both the East and West Branch facilities, pre-construction geologic exploration for the Devil Canyon Second Penstock, Second Afterbay, Mojave Siphon Powerplant and Second Pipeline, and pre-construction investigations and geologic construction work for the Coastal Aqueduct-Phase II Project.

In recent years, he's supervised major geologic studies and excavation mapping for both the East Branch Extension-Phase I and Phase II, along with geologic studies for the ongoing Perris Dam Remediation.

"California is a very fascinating and complex region for an engineering geologist," says Ted, who retired in June. "The Department has a storied history of moving water throughout the State for long distances, encountering a wide variety of geological formations and variable topography. You can keep very busy here as an engineering geologist working for the Department."

Ted has also worked for the federal government as an engineering geologist, mostly in California. He spent 13 years with the U.S. Bureau of Reclamation, starting in 1972, right after graduating from Fresno State with a Bachelor of Arts degree in Geology. After brief service breaks to work at the

Santa Clara Valley Water District and Woodward-Clyde Consultants, Ted returned to the Bureau in 1974.

One of his memorable assignments was participating in the foundation studies and excavation for the double-curvature, thin-arch Auburn Dam, a major Federal dam planned for the American River. Following the August 1, 1975 Oroville earthquake, some 50 miles to the northwest, he took part in three years of seismic evaluation at the Auburn Dam site. Though revised and deemed technically safe, the project was strongly opposed by environmental groups. Delayed for years, the dam project eventually was shelved due to rising construction cost estimates.

Completed Bureau projects included work on the Sugar Pine Dam, and two major tunnels --- Pacheco and Santa Clara Tunnels --- on the San Felipe Unit of the Central Valley Project. During 1984-1986, Ted supervised geologic exploration and construction mapping for the Tucson Aqueduct for the Bureau's Central Arizona Project. "But the heat in Arizona really got to us, my wife and I," he recalls, "So we decided to return to California."

Ted joined the Water Resources Control Board in 1986, working there for a year, before transferring to DWR in 1987. His DWR work earned him an Outstanding Professional Accomplishment Award and a State Superior Accomplishment Award in 1992. In 1995, he was promoted to Senior Engineering Geologist.

During the 1990s, he was heavily involved in geologic studies and construction activity on the Coastal Aqueduct-Phase II. Coastal Branch construction involved complex engineering and two tunnels through complex geologic formations. Its completion assured SWP water access for areas of the Central Coast that had previously been very vulnerable to drought.

Ted's retirement plans include travel, bicycling, golf, tending to his coin collection and continuing to collect and consume fine wines. ■

Retirements *continued*

Larry Fox
Operations & Maintenance
Sr. Water & Power Dispatcher

Marcia Hatanaka
Engineering
Office Services Supervisor I (Typing)

Michael Helle
Operations & Maintenance
Sr. Water & Power Dispatcher

Oscar Jimenez
Southern Field Division
HEP* Mechanic II

Marsha Jimenez
Southern Field Division
Water Resources Technician II

Kenneth Ketcher
San Luis Field Division
Utility Craftsworker

Theodore Kress
Engineering
Associate Cost Estimator

John Langston
Flood Management
Engineer

*Hydroelectric Plant

Retirements

Dan Fua



"I leave State service proud and satisfied knowing that I have contributed to the well-being of the people of the State of California," said **Dan Fua**, who retired as Supervising Engineer for the Central Valley Flood Protection Board in August. "All of my 31 years of State service were dedicated to helping

prevent and clean up water pollution, provide clean and adequate water supply, and improve flood protection in the Central Valley. Even my brief employment with the California Department of Food and Agriculture was dedicated to consumer protection. I thank the State for giving me the opportunity to make a difference and for providing me and my family with a decent livelihood."

Dan's State service began with the Department of Food and Agriculture and ended with the Central Valley Flood Protection Board. In between he worked for nine years with the Central Valley Regional Water Quality Control Board and 15 years with the Department of Water Resources.

"There was never a dull moment in all of my work assignments from assisting an individual resident resolve a problem with her septic system to being a part in protecting and improving the flood control system in the Central Valley," said Dan.

In 1990, he joined DWR as an associate engineer with the former Central District in the Division of Planning and Local Assistance where he conducted water quality evaluation and monitoring in the Delta. In 1992, he transferred to the Division of Operations and Maintenance where he oversaw the operation of the Department's field division water treatment plants to ensure compliance with regulatory requirements and assisted in SWP water quality evaluation and monitoring. Three years later he transferred to the Division of Engineering, where he was contract coordinator for DWR's capital outlay projects including the Coastal Branch Pipeline Phase II and San Bernardino Tunnel Intake Reconstruction projects.

In 1996, Dan returned to the Division of Planning and Local Assistance as a Senior Engineer where he managed the Central Valley Project Improvement Act State-federal cost-sharing program and assisted with the preparation of the California Water Plan Update, Bulletin 160-98. From 1999-2000, he worked for CALFED assisting in the preparation of CALFED's Programmatic Environmental Impact Statement/Report. A year later, he joined the State Water Project Analysis Office supervising the preparation, negotiation, and administration of non-State Water Project water and water rights settlement contracts. He also assisted in the development and administration of the Department's Environmental Water Account Program and Dry Year Water Purchase Program. Three years later, he transferred to the Bay-Delta Office, where he managed the Franks Tract, Delta Cross Channel Reoperation, and the Thru-Delta facilities projects. In 2005, he joined the Central Valley Flood Protection Board as a Supervising Engineer. He supervised the Board's Flood Projects Improvements Branch in reviewing and issuing permits for encroachments and modifications of the State/federal flood control facilities.

A Cum Laude graduate with a Bachelor of Science degree in Chemical Engineering from the University of San Carlos, Cebu City, Philippines, Dan worked as an Operations Research Analyst for the Paper Industries Corporation of the Philippines before moving to California in 1980. He joined the State with the Department of Food and Agriculture as an agriculture aide conducting chemical analysis on feeds and fertilizers. A year later, he transferred as a water resources control engineer for the Central Valley Regional Water Quality Control Board, where he developed waste discharge permits, inspected industrial and municipal waste discharge facilities, and managed surface and ground water pollution cleanup projects.

After 31 years of State service, Dan retired to spend more time with loved ones, travel, and pursue winemaking. This hobby will allow him to apply a little of the Chemical Engineering background he never had the chance to practice in his State career. ■

Retirements *continued*

Robin LeMay
San Joaquin Field Division
Office Technician (Typing)

John Morris II
IRWM***-North Central Region Office
Senior Land & Water Use Scientist

Nader Noori
Statewide Integrated Water
Management
Senior Engineer

John Sarna
IRWM***-North Central Region Office
Senior Engineer

Gregg Schmidt
Environmental Services
Mate, Fish & Game Vessel

Richard Sheppard
San Luis Field Division
Business Service Officer I

Pamela Tom
State Water Project Analysis Office
Water Resources Engineering
Associate

Hyung Yim
Engineering
Mechanical Engineer

***Integrated Regional Water Management

Retirements

Craig Silver



Craig Silver's teenage hobby of making rock gardens presaged his 30-year construction career.

"From the Sierra to the desert, I've worked on projects throughout California," said Craig, who retired in June as Construction Supervisor II at the Division of Engineering's Sacramento Project Headquarters.

"From cleaning up federal superfund jobsites to managing the construction of unusual types of water projects, my job was always exciting."

Born and raised on a farm in Washington, Craig also lived in Montana and Idaho.

During high school, he furthered his interest in drafting and architecture by taking classes on these subjects. He graduated from North Idaho College in 1973 with a certificate of completion from the engineering program. Craig has also studied well drilling and soil boring, design and construction of landfills, welding inspection, concrete testing, and design and maintenance of pavements.

After serving in the Navy for three years in the mid 1970s, Craig relocated to the Yuba City area to work for an electrical contractor and a private engineering firm. Craig started his State career with DWR's Lancaster Project Headquarters in 1982 as a construction inspector working on surveys for the Mojave Siphon tunnel and Alamo Powerplant.

"I danced around a few rattlesnakes," said Craig

He then became an electrical inspector helping with the start-up of the last seven units at Edmonston Pumping Plant and Alamo Powerplant. He was relocated to Northern California's Sacramento Project Headquarters Office, where he surveyed for the North Bay Aqueduct pipeline and Thermalito Diversion Dam. Then, he worked at Los Banos on the installation of a pilot desalination plant and a new roof for Dos Amigos Pumping Plant.

In 1986, Craig worked for the State Architect's Office until returning to DWR a year later to work on a new addition to Devil Canyon Powerplant.

On a special assignment, Craig was assigned to work for the Office of Emergency Services as an engineer in 1987. He appraised damages from disasters throughout California, wrote scope-of-work and cost estimates to repair damages, and reviewed appraisal reports. In 1989, he transferred to the Department of Toxic Substance Control as Chief Construction Inspector performing various tasks related to the clean-up and disposal of hazardous waste.

Craig returned to DWR in 1999 as Construction Supervisor I for East Branch Extension. He performed and led inspections on DWR infrastructure, and electrical systems. In 2008, Craig was promoted to Construction Supervisor II at the Sacramento Project Headquarters.

With the end of his 16 years at DWR offices throughout California, Craig's retirement plans are to continue living his adventures. ■

New Hires

Benjamin Geske
Bay-Delta Office
Engineer

Troy Graves
Operations & Maintenance
Water & Power Dispatcher

Lynnette Green
Management Services
Personnel Supervisor I

Dawn Klinger
Management Services
Personnel Specialist

Karen McGrath
Management Services
Personnel Supervisor I

Joanalyn Moyle
Southern Field Division
Office Technician (Typing)

Emma Panish
IRWM*** - Southern Region
Environmental Scientist

Nicholas Perrin
San Joaquin Field Division
Materials and Stores Specialist

Hector Ramos
San Joaquin Field Division
Building Maintenance Worker

Juanita Rios
Management Services
Labor Relations Specialist

Albert Rivas
Operations & Maintenance
Assoc. Governmental Program Analyst

Dustin Sanoski
Flood Management
Engineer

Steven Tolle
Operations & Maintenance
Staff Services Manager I

Mark Verbitsky
Operations & Maintenance
Water & Power Dispatcher

***Integrated Regional Water Management

Retirements

Jim Hartline



The Delta Field Division bid a fond farewell to **Jim Hartline** when he retired in June with 28 years of service.

After a four year stint in the Army Security Agency, Jim worked as an Electrical Technician II for the Bakersfield Water Department, where he repaired and maintained

storm water pumps and all of the electrical systems at two wastewater treatment plants.

Jim's journey to Delta Field Division from San Joaquin began in 2000 when he became Electrical Supervisor, which eventually led to his promotion as Hydroelectric Plant Maintenance Superintendent in late 2003.

His recent projects included working on the expansion of the South Bay Aqueduct. He worked on upgrades to the Skinner Fish Facility and the Suisun Marsh Salinity Control Gates, while developing the training plan and material for DWR's Arc/Flash safety program. He also taught several classes at Delta and Oroville field divisions.

Among Jim's most memorable assignments was the year he spent as the Operations Superintendent at Delta Field Division.

"I learned a whole new dimension to the State Water Project from that job and a greater appreciation of all the people who work those bizarre shifts to keep the water flowing," said Jim.

Jim's favorite job was the 11 years working as an Electrician I at the Edmonston Pumping Plant.

"That plant is so big it takes years to get to know it and for an electrician, it's really complicated," said Jim "You never have a chance to get bored with something new to learn every day."

Jim and his wife recently celebrated their 38th anniversary and although he's retired, he won't be far removed from water.

"Luckily, my wife likes to fish as much as I do, so after retirement I plan on cleaning the dust off of my boat and doing some fishing in the local lakes," said Jim.

The couple also plan on traveling the country in their camper while stopping to fish and visit their three daughters and 11 grandchildren along the way.■

Promotions

Andrew Aguilar

IRWM***-Northern Central Region
Staff Land and Water Use Scientist

Richard Byland

Southern Field Division
Senior HEP* Operator

Ted Craddock

Executive
Principal Engineer

Brian Ford

Southern Field Division
Senior HEP* Operator

Erika Arias

San Joaquin Field Division
HEP* Operator

Tariq Chechi

Flood Management
Engineer

Cathy Crothers

Executive
C.E.A.

Victoria Foster

Operations & Maintenance
Senior Water & Power Dispatcher

Dennis Balinsat

Operations & Maintenance
Assoc. Telecommunications Engineer

Kevin Clark

Bay-Delta Office
Staff Environmental Scientist

James Curtis

Operations & Maintenance
Sr. Water & Power Dispatcher

Andrew Freitag

Flood Management
Utility Craftsworker

Gary Bardini

Executive
C.E.A.

Peter Coombe

IRWM***-Northern Region
Staff Environmental Scientist

Jack Danna

FESSRO****
Staff Environmental Scientist

Cindy Garcia

Environmental Services
Environmental Program Manager I (Supv.)

Donelle Black

IRWM***-Northern Region
Executive Secretary I

Rachel Corbett

Fiscal Services
Accounting Administrator I

Oscar Dupont

Southern Field Division
HEP Electrician I

Gabrielle Bohrer

Flood Management
Environmental Scientist

Ashley Cousin

Flood Management
Engineer

Julianna Figgins

Management Services
Associate Management Analyst

*Hydroelectric Plant

***Integrated Regional Water Management

****FloodSAFE Environmental Stewardship and
Statewide Resources Office

Promotions *continued*

Seth Gargano

San Luis Field Division
Senior HEP* Operator

Kimberly Gazzaniga

Environmental Services
Senior Environmental Scientist

Diana Gillis

Delta Field Division
HEP* Maintenance Superintendent

James Gleim

Environmental Services
Program Manager II, CA Bay-Delta
Authority

Gretchen Goettl

Statewide Integrated Water
Management
Program Manager II, CA Bay-Delta
Authority

Margie Graham

IRWM***-Northern Region
Staff Environmental Scientist

Lori Grimes

Southern Field Division
HEP* Operator

Alejandro Guerrero

Flood Management
Service Assistant

Andy Guzman

Delta Field Division
Chief HEP* Operator

Daniel Holden

Technology Services
Systems Software Specialist III

Mark Holderman

Bay-Delta Office
Principal Engineer

Harrison Hunter

Flood Management
Utility Craftworker

Richard Hurte

Flood Management
Utility Craftworker

Robert Jarumay

Technology Services
Systems Software Specialist II

Maged Kamel

Engineering
Associate Electrical Engineer, HS

John Kastner

Southern Field Division
Senior HEP* Operator

Ashraf Keval

Technology Services
Systems Software Specialist II

Matthias Kimball

Engineering
Construction Management Supervisor

Cody Kimball

Engineering
Engineer

Katherine Kishaba

Executive
C.E.A.

Michal Koller

Environmental Services
Senior Engineer

Mark Kuah

Engineering
Associate Electrical Engineer, HS

Tony Lam IRWM***

South Central Region
Water Resources Technician II

Curtis Lannom

San Joaquin Field Division
Chief HEP* Operator

Brian Leary

Operations and Maintenance
Systems Software Specialist III (Supv.)

Heather Lee

Flood Management
Engineer

Edward Lizardi

Southern Field Division
Senior HEP* Operator

Danny Luong

Technology Services
Systems Software Specialist III

Nahideh Madankar

Flood Management
Senior Engineer

Erik Malvick

Safety of Dams
Senior Engineer

Dana Martinez

Southern Field Division
Administrative Officer II

Mark Mateo

Management Services
Assoc. Governmental Program Analyst

Jacob McQuirk

Bay-Delta Office
Supervising Engineer

Scott McReynolds

IRWM***-Northern Region
Senior Environmental Scientist

Javier Miranda

Bay-Delta Office
Staff Environmental Scientist

Jennifer Morales

IRWM***-South Central Region
Environmental Scientist

Kyle Morris

Delta Field Division
HEP* Mechanic I

Douglas Myatt

Fiscal Services
Staff Services Manager III

Holly Nichols

Engineering
Senior Engineering Geologist

Brian Niski

Technology Services
Senior Program Analyst

James Odom

Delta Field Division
Water Services Supervisor

Arnold Over

Delta Field Division
HEP* Electrician Supervisor

Leticia Page

Statewide Integrated Water
Management
Senior Engineer

Antonio Perez

Delta Field Division
HEP* Mechanic I

Shanmugam Pirabarooban

Engineering
Supervising Engineer

Neil Rambo

Statewide Integrated Water
Management
Staff Land & Water Use Scientist

Ryan Reeves

Bay-Delta Office
Senior Engineer

John Robinson

Southern Field Division
Water Resources Technician II

John Ross

Flood Management
Service Assistant

Michael Serna

IRWM***-Northern Region
Research Analyst II (Geo-Info-Systems)

Mark Shaltes

Engineering
Assoc. Governmental Program Analyst

Geoffrey Shumway

Engineering
Associate Land Agent

Amardeep Singh

Flood Management
Senior Engineer

Jian Song

Technology Services
Systems Software Specialist III

Paul Strusinski

Engineering
Supervising Engineer

*Hydroelectric Plant

***Integrated Regional Water Management

Promotions *continued*

Jon Tice
Engineering
Supervising Engineer

Jianzhong Wang
Bay-Delta Office
Engineer

William Wong
Flood Management
Engineer

Olga Torres
Operations & Maintenance
Water & Power Dispatcher

Wesley E. Watson Jr.
Operations & Maintenance
Water & Power Dispatcher

Edmund Yu
Environmental Services
Environmental Scientist

Keith Wallace
IRWM***-Northern Central Region
Senior Engineer

Victoria Whipkey
Management Services
Administrative Officer II

***Integrated Regional Water Management

Obituaries

Cedrick Uyeno



Cedrick Uyeno, a Senior Engineer with DWR for more than 33 years, died on May 3. He spent his entire career working as a design engineer in the Division of Engineering, chiefly on pipelines and large hydraulic structures.

Uyeno took part in the analysis and design of many key State Water Project structures. This included design work on renovating the John F. Skinner Delta Fish Protective Facility, which has saved an estimated 15 million fish a year from entrainment in Delta pumps.

He also worked on the North Bay Aqueduct-Phase II, East Branch Enlargement-Phase I, the Coastal Branch-Phase II, San Antonio Turnout, Los Banos Desalting Demonstration Project, East Branch Extension-Phase I, South Bay Aqueduct Enlargement and analysis of the seismic stability of the North Bay Aqueduct-Phase II.

Cedrick began working for DWR in October, 1977 after earning Bachelor of Science and Master degrees in Civil Engineering from the University of California at Davis. As an Assistant Engineering Specialist, his initial assignment was in the Dams and Canals Section, working on seismic analysis of Thermalito Afterbay Dam.

In 1981, Uyeno earned promotion to associate engineer and transferred to the Plants and Pipelines Section. His pipeline projects included: North Bay Aqueduct, a five-six foot diameter pipeline serving Vacaville, Fairfield, Vallejo and Napa; EBE-Phase I, pipes 11 feet to 17 feet in diameter, serving Palmdale and Los Angeles, and the Coastal Branch, pipes three-to-five feet in diameter, extending the SWP into San Luis Obispo and Santa Barbara Counties.

He was promoted to senior engineer in May, 2000.

Terry Becker, Chief of DWR's Civil Engineering Branch, who supervised Uyeno for most of his DWR career, said that in addition to engineering skills, Cedrick was an expert at reviewing and analyzing designs and Contractor proposals for large hydraulic structures.

"His 'trust but verify' approach made him very effective at finding errors, intentional or not, big or small, and thus averting major pipeline problems," said Becker.

Uyeno received a 1998 Certificate of Appreciation from the Director for work on the Coastal Branch Phase II Project. In 2002, he received a Unit Citation from the Director for work on design and construction of the South Bay Aqueduct Project.

He is survived by a cousin, Laurie Kamagawachi of Woodland. A graveside service was held on May 12 at Newcastle Cemetery in Newcastle. On June 10, a memorial service was held at Placer Buddhist Church in Penryn. ■

Obituaries

James Albaugh



James Albaugh, retired Associate Cost Estimator from the Division of Engineering, passed away at the age of 80 on August 17.

James started his State career with the Department of Forestry as a delineator, then he joined DWR's Design and Construction (now

called Division of Engineering) Civil Design Section in 1957. He worked on drawings and specifications cost estimates for the construction of DWR projects, including South Geysers Geothermal Powerplant and Montezuma Slough Control Structure. James retired from DWR in January of 1990.

He is survived by his wife Laurette, three sons, eight grandchildren, and two great-grandchildren. ■

George Angeloni



George Angeloni, retired Administrative Officer of the San Joaquin Field Division, passed away at the age of 73 on August 26, 2011.

During his 44 years with the State, he began working for the Department of Highways as an engineering aid in San Luis Obispo.

In 1963, he moved to Bakersfield and joined DWR as an engineering aid. During his 37 years with DWR's San Joaquin

Field Division, George was an Administrative Officer for 20 years and a Water Resources Engineering Associate performing field engineering studies. As an employee who witnessed the creation of the Department of Water Resources, he worked on the State Water Project canal's construction from Wheeler Ridge to Edmonston. He retired in 2001.

He is survived by his wife, Veronika, two sons, and five grandchildren. ■

John Carrillo



John Carrillo, retired Chief of Mechanical Design Branch, passed away at the age of 84 on May 21.

During his 34 years with the State, he worked more than 26 years in Design and Construction. Before joining DWR as an associate mechanical engineer in 1961, John worked for the Bureau of

Public Roads in San Francisco, Standard Brands in San Francisco, and Army Corps of Engineers in Sacramento. He graduated from Heald College in San Francisco with a Bachelor of Science degree in Mechanical Engineering. His work included designing mechanical systems for dams, hydroelectric power plants, buildings and desalinization plants.

His State career began with the Department of Agriculture, where he designed heating, ventilating, and air conditioning

systems. He joined DWR's Mechanical Design Branch and later became senior mechanical engineer. After his transfer to Operations and Maintenance's Plant Maintenance Branch as a supervising engineer in 1980, he returned to Design and Construction as principal mechanical and electrical engineer. For leading the development of an advanced penstock valve seat design, John was awarded the Department's Outstanding Technical Accomplishment Award. He was also instrumental in the modification of Hyatt turbine wear rings to reduce excessive downthrust. John retired in 1987.

John is survived by his wife of 59 years, Flora Carrillo, daughter Jan and son J. Steven. ■

Obituaries

Bob Fingado



Bob Fingado, retired Senior Engineer of the Dam Safety Reports Section, passed away at the age of 83 on May 20.

During his 40 years as a civil engineer, Bob worked for several departments, including DWR, Parks and Recreation and Transportation.

After joining DWR in 1957, he managed a variety of planning programs. During his 25th anniversary for the State,

he was Chief of the Delta Branch Implementation Section of the Central District in 1975. Bob retired from Safety of Dams' Reports and Administration Branch in September 1981. He worked as a retired annuitant at DWR's Drought Center in 1990.

He was also active as treasurer and secretary of the Sacramento Section of the American Society of Civil Engineers.

Preceded in death by his wife, Helen and his brother Alvin, Bob is survived by his two children, Donald and Patricia Harris, five grandchildren, and three great grandchildren. ■

Roy F. Nelson



Roy Nelson, a retired Water Resources Engineering Associate, passed away at the age of 89 on July 22, 2011.

In 1958, Roy began working for DWR in Sonora as a temporary helper. He moved to Sacramento when the Sonora office closed. In 1965, the Northern District Office

(now called the Northern Region Office) relocated to Red Bluff. He worked in the Planning Section in the Project Investigations Unit as a Water Resources Technician II.

One of his first projects included working on the "Bulletin

No. 95 Tuolumne County Water District No. 2 Investigation," October 1962. He also worked in the Local Assistance and Review Section of the Operations Branch.

As a Water Resources Engineering Associate assigned to the Davis-Grunsky Unit, he worked to bring safe reliable water supplies to small communities throughout the northern area. From the loan application process to inspection of construction progress, Roy enjoyed working with local water officials and many others.

He retired from DWR in August 1982. He loved to play golf.

Preceded in death by his daughter Judy, Roy is survived by his wife of 62 years, Doris, son Danny, a daughter Teresa, and a grandson Devon. ■

Neal Perkins



Neal Perkins, retired Utility Craftworker, passed away at the age of 67 on June 2 in Bakersfield.

Born in Nebraska, Neal moved to Oroville at the age of seven. After high school, he worked in Alaska in a fishing cannery. He joined the Navy in 1964 serving as a barber and later a cobbler. After

his military service, he worked in Oregon felling trees, then moved to Bakersfield to work at the Pacific Southern Foundry.

He began his 21 years with San Joaquin Field Division in January of 1984. He retired in December of 2005. In 1990, Neal was awarded a Citation and Medal of Valor from the State of California for rescuing a pilot from a burning airplane during his commute to work to the Lost Hills Operations and Maintenance Center.

Neal is survived by his loving wife, Elaine, daughter l'Esha, and granddaughter Ariana. ■

Obituaries

Rhys K. Panero



Rhys K. Panero, retired Chief Administrative Officer for DWR's Delta Field Division, won respect for the skill and spirited style of his professional performance. Panero, who retired in 2000, was 68 when he died April 30, 2011 after battling cancer.

"Rhys Panero set the standard for the (Delta) Field Division Administrative Branch Chief position, no matter what the challenge," recalls Dave Starks, Delta Field Division Chief from 1992-2000. "To those who knew him, he continues to set that same standard of excellence."

A 35-year DWR employee, Panero was widely known in the Modesto-Escalon area for his association in family businesses, including a ranch at Escalon, and for a variety of community activities. A dedicated pilot, Panero enjoyed flying small passenger planes, taking his children for many plane trips around California. In retirement, he enjoyed applying his engineering skills to refurbishing farm equipment.

Born in 1942, Panero grew up in Escalon. While attending Escalon High School, Rhys was elected study body president. In 1965, Panero earned a Bachelor of Science degree in Aeronautical Science with a minor in Business Administration from San Jose State. After college, he worked briefly for his father's well-drilling company before joining State service, starting with DWR in August 1965 as an engineering aid.

His business and engineering skills served Panero well throughout his State career. After five years service as a water resources technician and seven as a maintenance mechanic, Panero moved into administrative posts, starting in July 1979 as a staff services analyst.

In 1980, Panero became a regional administrative officer I. He excelled as an administrative officer for DWR for the remaining two decades of his State career. He won promotion in 1981 to regional administrative officer II and to RAO III in 1987. Throughout his career, Rhys earned the respect and good will of his peers through the expertise and cheerful spirit of his performance.

"He assured that Human Resource and Business Services functioned smoothly and correctly, so that Delta Field Division could perform its mission," said Dave Starks, who as Division Chief worked closely with Panero for almost a decade.

Panero resided in Modesto for his entire adult life. After retiring in December 2000, Panero became active in his son's business, Panero Farms Shredding Service. He had charge of maintaining equipment until becoming ill in 2010.

Preceded in death by his parents, Beryl June and John L. Panero, Rhys is survived by a daughter, Kimberly Panero-Eley of El Dorado Hills, and son, Rhys Marc Panero; six grandchildren; brother, Marc, and many nieces and nephews.

Remembrances may be made to Shriner's Hospital for Children, 2900 Rocky Point Drive, Tampa, Florida, 33607. ■

Kenneth Ronald Quinn

Kenneth Ronald Quinn, a retired Water Resources Technician II, passed away at the age of 84 on May 2, 2011.

Ron, a veteran in the Merchant Marine during WWII, was the youngest of the crew that moved the Delta Queen from California through the Panama Canal to the Mississippi River in 1946. After 30 years of DWR service with Central District and Flood Management, Ron retired from the Flood Operations Branch's Flood Inspection Section in 1986.

He is survived by his wife of 61 years, Evelyn, sons Tom and Pat, and six grandchildren and 4 great-grandchildren.

James A. Richardson

James A. Richardson, retired Hydroelectric Plant Operator from Oroville Field Division, passed away in his sleep at the age of 71 on July 10, 2011 in Oroville, CA.

Jim began his DWR career as a hydroelectric plant operator apprentice in Oroville in 1980. After more than 22 years with DWR, he retired in 2003.

Preceded in death by his son Mitchell, James is survived by his wife Margaret and three grandchildren. ■

DWR NEWS/People
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STATE OF CALIFORNIA • DEPARTMENT OF WATER RESOURCES

DWR Mission | *Statement*

To manage the water resources of California
in cooperation with other agencies, to benefit
the State's people, and to protect, restore, and
enhance the natural and human environments.